



# Search Report

## EIC 1700

STIC Database Tracking Number: 239388

To: WILLIAM CHEUNG  
Location: REM-10B19  
Art Unit: 1796  
Thursday, October 04, 2007

Case Serial Number: 10/761101

From: KENDRA BANKS  
Location: EIC1700  
REM-4B28 / REM-4A28  
Phone: (571)272-2516

kendra.banks@uspto.gov

### Search Notes

Examiner CHEUNG:

No Cases Reported

US 6,274,684



PATNO IS 6274684

DATE: OCTOBER 4, 2007  
LIBRARY: PATENT  
FILE: ALL

Your search request is:  
PATNO IS 6274684

Number of PATENTS found with your search request through:  
LEVEL 1... 1

Your search request has found 1 PATENT through Level 1.  
To DISPLAY this PATENT press either the KWIC, FULL, CITE or SEGMENTS key.  
To MODIFY your search request, press the M key (for MODIFY) and then the ENTER key.

For further explanation, press the H key (for HELP) and then the ENTER key.

LEVEL 1 - 1 PATENT

1. 6274684 , August 14, 2001 , Catalyst composition, method of polymerization, and polymer therefrom, Loveday, Donald R. - Houston, Texas, United States (US); McConville, David H. - Houston, Texas, United States (US); Szul, John F. - Nitro, West Virginia, United States (US); Erickson, Kersten Anne - South Charleston, West Virginia, United States (US); Mawson, Simon - Charleston, West Virginia, United States (US); Kwack, Tae Hoon - Belle Mead, New Jersey, United States (US); Karol, Frederick J. - Belle Mead, New Jersey, United States (US); Schreck, David James - Cross Lanes, West Virginia, United States (US), 425387 (09), January 10, 2000 - ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS)., UNIVATION TECHNOLOGIES, LLC 5555 SAN FELIPE, SUITE 1950HOUSTON, TEXAS, 77056, Reel and Frame Number: 010491/0078, Univation Technologies, LLC, Houston, Texas, United States (US), United States company or corporation (02)

CORE TERMS: catalyst, compound, reactor, ligand, polymer, bulky, activator, atom, metallocene-type, polymerization ...

LEVEL 1 - 1 OF 1 PATENT

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

6274684

August 14, 2001

Catalyst composition, method of polymerization, and polymer  
therefrom

APPL-NO: 425387 (09)

FILED-DATE: October 22, 1999

GRANTED-DATE: August 14, 2001

CORE TERMS: catalyst, compound, reactor, ligand, polymer, bulky, activator,  
atom, metallocene-type, polymerization ...

6274684 OR 6,274,684

Your search request has found no ITEMS.

To edit the above request, use the arrow keys. Be sure to move the cursor to the end of the request before you enter it.

To enter a new search request, type it and press the ENTER key.

What you enter will be Search Level 1.

For further explanation, press the H key (for HELP) and then the ENTER key.

6274684 OR 6,274,684

Your search request has found no CASES.

To edit the above request, use the arrow keys. Be sure to move the cursor to the end of the request before you enter it.

To enter a new search request, type it and press the ENTER key.

What you enter will be Search Level 1.

For further explanation, press the H key (for HELP) and then the ENTER key.

LexisNexis CourtLink

Welcome Kendra  
Mellerson!

[Skip](#) [Order Documents](#) | [Available Courts](#) | [Total Litigator](#) | [Lexis.com](#) |  
[Sign Out](#) | [Learning Center](#)

[Skip](#) [My CourtLink](#) [Search](#) [Dockets & Documents](#) [Track](#) [Alert](#) [Strategic Profiles](#) [My Account](#)



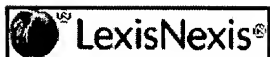
[Search](#) > [Patent Search](#) > Searching

Patent Search 6274684 10/4/2007

No cases found.

[Return to Search](#)

(Charges for search still apply)



[Skip](#) [About LexisNexis](#) | [Terms & Conditions](#) | [Pricing](#) | [Privacy](#) | Customer Support - 1-888-311-1966

Copyright © 2007 LexisNexis®. All rights reserved.

[Back to top of page](#)

Current session 04/10/2007

Query/Command : n

..FILE / ..INFO / ..GUIDE

?

Query/Command : FILE PLUSPAT

QUESTEL - Time in minutes : 0,62

The cost estimation below is based on Questel's  
standard price list

Estimated cost : 0.70 USD

Cost estimated for the last database search : 0.70 USD

Estimated total session cost : 0.70 USD

Selected file: PLUSPAT

PLUSPAT - (c) Questel-Orbit, All Rights Reserved.

Comprehensive Worldwide Patents database

Individual records for each Country or Patent Office

Coverage: 77 patenting authorities; start dates vary from 1800 forward

For PlusPat Fact Sheet, Pricing and FAQ, see the Questel.Orbit website

Citations and FI/F-term classification available for Japanese documents

Last update of file: 2007/09/28 (YYYY/MM/DD) 2007-39/UP (last update)

Search statement 1

?

Query/Command : US6274684/PN

**\*\* SS 1: Results 1**

Search statement 2

?

Query/Command : PRT FULL NONSTOP LEGALALL

---

1 / 1 PLUSPAT - ©QUESTEL-ORBIT

PN - US6274684 B1 20010814 [US6274684]

TI - (B1) Catalyst composition, method of polymerization, and polymer therefrom

PA - (B1) UNIVATION TECH LLC (US)

PA0 - Univation Technologies, LLC, Houston TX [US]

IN - (B1) ERICKSON KERSTEN ANNE (US); KAROL FREDERICK J (US);  
SCHRECK DAVID JAMES (US); SZUL JOHN F (US); KWACK TAE HOON  
(US); MAWSON SIMON (US); LOVEDAY DONALD R (US);  
MCCONVILLE DAVID H (US)

AP - US42538799 19991022 [1999US-0425387]



**PR** - US42538799 19991022 [1999US-0425387]

**IC** - (B1) C08F-004/44

**ICAA** - C08F-010/00 [2006-01 A - I R M EP]; C08F-010/02 [2006-01 A - I R M EP]; C08F-210/16 [2006-01 A - I R M EP]; C08L-023/08 [2006-01 A - I R M EP]; C08L-023/16 [2006-01 A - I R M EP]  
C08F-004/659 [2006-01 A - N R M EP]; C08F-004/6592 [2006-01 A - N R M EP]

**ICCA** - C08F-010/00 [2006 C - I R M EP]; C08F-210/00 [2006 C - I R M EP]; C08L-023/00 [2006 C - I R M EP]  
C08F-004/00 [2006 C - N R M EP]

**EC** - C08F-010/00 C08F-002:00  
C08F-010/02 C08F-004:02D  
C08F-010/02 C08F-004:64  
C08F-010/02 C08F-004:659  
C08F-010/02 C08F-004:659B  
C08F-210/16  
C08L-023/08A1 &B2  
C08L-023/16 &B2

**ICO** - M08F-210/16 M08F-210:14 &MFI &MWDB &LMW &HMM &FILM  
M08F-210/16 M08F-210:14 &MFI &MWDBI &LMW &HMM  
M08F-004/659  
M08F-004/659K  
M08F-004/6592  
M08L-023/08A1  
M08L-205/02  
M08L-314/06

**PCL** - ORIGINAL (O) : 526114000; CROSS-REFERENCE (X) : 526160000  
526172000 526348200

**DT** - Corresponding document

**CT** - US4057565; US5426243; US5637660; US5707913; US5726115; US5798427;  
US5889128; EP0197310 A2; EP0197310 A3; EP0241560 A1; EP0751142 A2;  
EP0816372 A2; EP0816384A2 A3; EP0874005 A1; EP0803520 B1; EP0893454  
A1; EP0890575 A1; JP02-78663; JP08-081415; JP08-277307; JP10-7712; JP10-  
45904; WO9112285; WO9212162; WO9421700; WO9608498; WO9742197;  
WO9745434; WO9748736; WO9748735; WO9827124; WO9830569;  
WO9830612; WO9834964; WO9837109; WO9837106; WO9846651;  
WO9855467; WO9902472; WO9902536; WO9901460; WO9912981;  
WO9946303; WO9946304  
Organometallics, Bei et al., vol. 16, pp. 3282-3302 (1997).  
  
Organometallics, Grubbs, vol. 17, pp. 3149-3151 (1998).  
  
Macromolecules, Repo, vol. 30, pp. 171-175 (1997).  
  
Polyhedron, Guerin et al., vol. 17 (5-6), pp. 917-923 (1998).  
  
Inorganic Chemistry, Fuhman/Kempe et al., vol. 35, pp. 6742-6745 (1996).  
  
Organometallics, Guerin et al., vol. 15 (26), pp. 5586-5590 (1996).

Organometallics, Guerin et al., vol. 17 (23), pp. 5172-5177 (1998).

Macromolecular Chemistry and Physics, Silvestro et al., vol. 197, No. 10, pp. 3209-3228 (1996).

Journal of Organometallic Chemistry, Harkonen et al., vol. 519, No. 1, pp. 205-208 (1996).

J.Chem. Soc. Dalton Trans., Cloke et al., pp. 25-30 (1995).

Journal of Organometallic Chemistry, Clark et al., vol. 501, pp. 333-340 (1995).

J. Am. Chem. Soc., Baumann et al., vol. 119, pp. 3830-3831 (1997).

J. Am. Chem. Soc., Scollard et al., vol. 118, pp. 10008-10009 (1996).

Organometallics, Horton et al., vol. 15, pp. 2672-2674 (1996).

Organometallics, Guerin et al., vol. 15, pp. 5085-5089 (1996).

**STG** - (B1) U.S. Patent (no pre-grant pub.) after Jan. 2, 2001

**AB** - Catalyst compositions and methods, useful in polymerization processes, utilizing at least two metal compounds are disclosed. At least one of the metal compounds is a Group 15 containing metal compound and the other metal compound is preferably a bulky ligand metallocene-type catalyst. The invention also discloses a new polyolefin, generally polyethylene, particularly a multimodal polymer and more specifically, a bimodal polymer, and its use in various end-use applications such as film, molding and pipe.

**UP** - 2001-34

---

1 / 1 LGST - ©EPO

**PN** - US6274684 B1 20010814 [US6274684]

**AP** - US42538799 19991022 [1999US-0425387]

**ACT** - 20000110 US/AS-A

ASSIGNMENT

OWNER: UNIVATION TECHNOLOGIES, LLC 5555 SAN FELIPE, SUITE  
ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNORS:LOVEDAY,  
DONALD R.;MCCONVILLE, DAVID H.;SZUL, JOHN F.;AND  
OTHERS;REEL/FRAME:010491/0078;SIGNING DATES FROM 19991108 TO  
19991110

20040629 US/RF-A

REISSUE APPLICATION FILED

EFFECTIVE DATE: 20040120

**UP** - 2004-27

---

1 / 1 CRXX - ©CLAIMS/RRX

PN - 6,274,684 A 20010814 [US6274684]  
PA - Univation Technologies LLC  
ACT - 20040120 REISSUE REQUESTED  
ISSUE DATE OF O.G.: 20040629  
REISSUE REQUEST NUMBER: 10/761101  
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 1713

Reissue Patent Number:

Search statement 2

**Query/Command : FILE INPADOC**

LGST - Time in minutes : 0,01  
The cost estimation below is based on Questel's  
standard price list

Estimated cost :	0.01 USD
Records displayed and billed : 1	
Estimated cost :	0.70 USD
Cost estimated for the last database search :	0.71 USD
Estimated total session cost :	1.41 USD

CRXX - Time in minutes : 0,02  
The cost estimation below is based on Questel's  
standard price list

Estimated cost :	0.03 USD
Records displayed and billed : 1	
Estimated cost :	6.00 USD
Cost estimated for the last database search :	6.03 USD
Estimated total session cost :	7.44 USD

LITA - Time in minutes : 0,00  
The cost estimation below is based on Questel's  
standard price list

Estimated total session cost :	7.44 USD
--------------------------------	----------

PLUSPAT - Time in minutes : 0,26  
The cost estimation below is based on Questel's  
standard price list

Estimated cost :	0.75 USD
Records displayed and billed : 1	
Estimated cost :	1.55 USD
Cost estimated for the last database search :	2.30 USD
Estimated total session cost :	9.74 USD

Selected file: PLUSPAT

PLUSPAT - (c) Questel-Orbit, All Rights Reserved.  
Comprehensive Worldwide Patents database  
Individual records for each Country or Patent Office  
Coverage: 77 patenting authorities; start dates vary from 1800 forward  
For PlusPat Fact Sheet, Pricing and FAQ, see the Questel.Orbit website  
Citations and FI/F-term classification available for Japanese documents  
Last update of file: 2007/09/28 (YYYY/MM/DD) 2007-39/UP (last update)

Search statement 2

?

Query/Command : FAM US6274684/PN

1 Patent Groups

**\*\* SS 2: Results.73**

Search statement 3

?

Query/Command : FAMSTATE NONSTOP

---

1 / 73 PLUSPAT - ©QUESTEL-ORBIT

**PN** - AT361324 T 20070515 [ATE361324]  
**STG** - (T) EP Patent valid in AT  
**OTI** - (T) VERFAHREN ZUM ANFAHREN VON MEHRFACHKATALYSATORSYSTEME  
**PA** - (T) UNIVATION TECH LLC (US)  
**PA0** - UNIVATION TECHNOLOGIES LLC (US)  
**IN** - (T) SZUL JOHN F (US); ERICKSON KERSTEN ANNE (US); MAWSON SIMON (US); DANIELL PAUL T (US); GOODE MARK G (US); MCKEE MATTHEW G (US)  
**IC** - (T) C08F-002/00 C08F-002/34 C08F-004/00 C08F-004/64 C08F-004/659 C08F-004/6592 C08F-010/00 C08F-210/00 C08F-210/16 C08L-023/00 C08L-023/08  
**AP** - AT00932463T 20000515 [2000AT-0932463]  
**PR** - US42538799 19991022 [1999US-0425387]  
 US45623499 19991207 [1999US-0456234]  
**ICAA** - C08F-002/34 [2006-01 A F I R M JP]; C08F-002/00 [2006-01 A L I R M JP]; C08F-004/64 [2006-01 A L I R M JP]; C08F-010/00 [2006-01 A - I R M EP]; C08F-210/16 [2006-01 A - I R M EP]; C08L-023/08 [2006-01 A - I R M EP] C08F-004/659 [2006-01 A - N R M EP]; C08F-004/6592 [2006-01 A - N R M EP]  
**ICCA** - C08F-002/34 [2006 C F I R M JP]; C08F-002/00 [2006 C L I R M JP]; C08F-004/00 [2006 C L I R M JP]; C08F-010/00 [2006 C - I R M EP]; C08F-210/00 [2006 C - I R M EP]; C08L-023/00 [2006 C - I R M EP]  
**EC** - C08F-210/16 C08F-004:659B  
 C08F-010/00 C08F-002:00  
**ICO** - M08F-004/659  
 M08F-004/659K  
 M08F-004/6592  
 M08F-210/16 M08F-210:14 &MFI &MWDBI &LMW &HMW  
 M08L-023/08A1

**DT** - Corresponding document  
**UP** - 2007-21

---

2 / 73 *PLUSPAT - ©QUESTEL-ORBIT*

**PN** - AT270678 T 20040715 [ATE270678]  
**STG** - (T) EP Patent valid in AT  
**OTI** - (T) IN FLÜSSIGER FORM ZUZUSETZENDE  
 MEHRFACHKATALYSATOREN  
**PA** - (T) UNIVATION TECH LLC (US)  
**IN** - (T) ERICKSON KERSTEN ANNE (US); SCHRECK DAVID JAMES (US);  
 SZUL JOHN F (US); DANIELL PAUL T (US); GOODE MARK G (US);  
 MAWSON SIMON (US); MCKEE MATTHEW G (US); WILLIAMS CLARK  
 C (US)  
**IC** - (T) C08F-210/16  
**AP** - AT00935979T 20000515 [2000AT-0935979]  
**PR** - US45179299 19991201 [1999US-0451792]  
 WOUS0013373 20000515 [2000WO-US13373]  
**ICAA** - C08F-010/02 [2006-01 A - I R M EP]; C08F-210/16 [2006-01 A - I R M EP];  
 C08L-023/08 [2006-01 A - I R M EP]; C08L-023/16 [2006-01 A - I R M EP]  
 C08F-004/659 [2006-01 A - N R M EP]; C08F-004/6592 [2006-01 A - N R M  
 EP]  
**ICCA** - C08F-010/00 [2006 C - I R M EP]; C08F-210/00 [2006 C - I R M EP]; C08L-  
 023/00 [2006 C - I R M EP]  
 C08F-004/00 [2006 C - N R M EP]  
**UP** - 2004-31

---

1 / 1 *LEGALI - ©EPO*

**PN** - AT270678 T 20040715 [ATE270678]  
**AP** - AT00935979T 20000515 [2000AT-0935979]  
**ACTE** - 20050315 AT/UEP-T  
 PUBLICATION OF TRANSLATION OF EUROPEAN PATENT  
 SPECIFICATION  
 (EP 1244718 0 [EP1244718])  
 20070215 AT/REN-T [-]  
 CEASED DUE TO NON-PAYMENT OF THE ANNUAL FEE  
**UP** - 2007-08

---

3 / 73 *PLUSPAT - ©QUESTEL-ORBIT*

**PN** - AU4713900 A 20010508 [AU200047139]  
**STG** - (A) Open to public inspection  
**TI** - (A) Catalyst compositions, methods of polymerization, and polymers therefrom  
**PA** - (A) UNIVATION TECH LLC

**IN** - (A) ERICKSON KERSTEN ANNE; KAROL FREDERICK J; SCHRECK DAVID JAMES; SZUL JOHN F; DANIELL PAUL T; GOODE MARK G; KWACK TAE HOON; MAWSON SIMON; MCKEE MATTHEW G; HOLT CAMP MATTHEW W; LOVEDAY DONALD R; MCCONVILLE DAVID H; WILLIAMS CLARK C  
**IC** - (A) C08F-004/64 C08F-010/00 C08F-010/02  
**PN2** - AU767697 B2 20031120 [AU-767697]  
**STG2** - (B2) Patent preceded by OPI  
**TI2** - (B2) Catalyst compositions, methods of polymerization, and polymers therefrom  
**PA2** - (B2) UNIVATION TECH LLC  
**IN2** - (B2) ERICKSON KERSTEN ANNE; KAROL FREDERICK J; SCHRECK DAVID JAMES; SZUL JOHN F; DANIELL PAUL T; GOODE MARK G; KWACK TAE HOON; MAWSON SIMON; MCKEE MATTHEW G; HOLT CAMP MATTHEW W; LOVEDAY DONALD R; MCCONVILLE DAVID H; WILLIAMS CLARK C  
**IC2** - (B2) C08F-004/64 C08F-010/00 C08F-010/02  
**AP** - AU4713900 20000515 [2000AU-0047139]  
**PR** - US42538799 19991022 [1999US-0425387]  
 US43540999 19991108 [1999US-0435409]  
 US44355199 19991118 [1999US-0443551]  
 US44281399 19991118 [1999US-0442813]  
 US45179299 19991201 [1999US-0451792]  
 US46017999 19991210 [1999US-0460179]  
 WOUS0013313 20000515 [2000WO-US13313]  
**ICAA** - C08F-010/00 [2006-01 A - I R M EP]; C08F-010/02 [2006-01 A - I R M EP]; C08F-210/16 [2006-01 A - I R M EP]; C08L-023/08 [2006-01 A - I R M EP]; C08L-023/16 [2006-01 A - I R M EP]  
 C08F-004/659 [2006-01 A - N R M EP]; C08F-004/6592 [2006-01 A - N R M EP]  
**ICCA** - C08F-010/00 [2006 C - I R M EP]; C08F-210/00 [2006 C - I R M EP]; C08L-023/00 [2006 C - I R M EP]  
 C08F-004/00 [2006 C - N R M EP]  
**UP** - 2001-37

---

 41/73 PLUSPAT - ©QUESTEL-ORBIT

**PN** - AU5018400 A 20010508 [AU200050184]  
**STG** - (A) Open to public inspection  
**TI** - (A) Start up methods for multiple catalyst systems  
**PA** - (A) UNIVATION TECH LLC  
**IN** - (A) SZUL JOHN F; ERICKSON KERSTEN ANNE; MAWSON SIMON; DANIELL PAUL T; GOODE MARK G; MCKEE MATTHEW G  
**IC** - (A) C08F-010/00 C08F-010/02  
**PN2** - AU763705 B2 20030731 [AU-763705]  
**STG2** - (B2) Patent preceded by OPI  
**TI2** - (B2) Start up methods for multiple catalyst systems

**PA2** - (B2) UNIVATION TECH LLC  
**IN2** - (B2) SZUL JOHN F; ERICKSON KERSTEN ANNE; MAWSON SIMON;  
 DANIELL PAUL T; GOODE MARK G; MCKEE MATTHEW G  
**IC2** - (B2) C08F-010/00 C08F-010/02  
**AP** - AU5018400 20000515 [2000AU-0050184]  
**PR** - WOUS0013378 20000515 [2000WO-US13378]  
 US42538799 19991022 [1999US-0425387]  
 US45623499 19991207 [1999US-0456234]  
**ICAA** - C08F-002/34 [2006-01 A F I R M JP]; C08F-002/00 [2006-01 A L I R M JP];  
 C08F-004/64 [2006-01 A L I R M JP]; C08F-010/00 [2006-01 A - I R M EP];  
 C08F-210/16 [2006-01 A - I R M EP]; C08L-023/08 [2006-01 A - I R M EP]  
 C08F-004/659 [2006-01 A - N R M EP]; C08F-004/6592 [2006-01 A - N R M  
 EP]  
**ICCA** - C08F-002/34 [2006 C F I R M JP]; C08F-002/00 [2006 C L I R M JP]; C08F-  
 004/00 [2006 C L I R M JP]; C08F-010/00 [2006 C - I R M EP]; C08F-210/00  
 [2006 C - I R M EP]; C08L-023/00 [2006 C - I R M EP]  
**EC** - C08F-210/16 C08F-004:659B  
 C08F-010/00 C08F-002:00  
**ICO** - M08F-210/16 M08F-210:14 &MFI &MWDBI &LMW &Hmw  
 M08F-004/659  
 M08F-004/659K  
 M08F-004/6592  
 M08L-023/08A1  
**UP** - 2001-37

---

5 / 73 PLUSPAT - ©QUESTEL-ORBIT

**PN** - AU5135800 A 20010612 [AU200051358]  
**STG** - (A) Open to public inspection  
**TI** - (A) Solution feed of multiple catalysts  
**PA** - (A) UNIVATION TECH LLC  
**IN** - (A) ERICKSON KERSTEN ANNE; SCHRECK DAVID JAMES; SZUL JOHN  
 F; DANIELL PAUL T; GOODE MARK G; MAWSON SIMON; MCKEE  
 MATTHEW G; WILLIAMS CLARK C  
**IC** - (A) C08F-210/16  
**PN2** - AU773207 B2 20040520 [AU-773207]  
**STG2** - (B2) Patent preceeded by OPI  
**TI2** - (B2) Solution feed of multiple catalysts  
**PA2** - (B2) UNIVATION TECH LLC  
**IN2** - (B2) ERICKSON KERSTEN ANNE; SCHRECK DAVID JAMES; SZUL  
 JOHN F; DANIELL PAUL T; GOODE MARK G; MAWSON SIMON;  
 MCKEE MATTHEW G; WILLIAMS CLARK C  
**IC2** - (B2) C08F-210/16  
**AP** - AU5135800 20000515 [2000AU-0051358]  
**PR** - US45179299 19991201 [1999US-0451792]  
 WOUS0013373 20000515 [2000WO-US13373]

**ICAA** - C08F-010/02 [2006-01 A - I R M EP]; C08F-210/16 [2006-01 A - I R M EP]; C08L-023/08 [2006-01 A - I R M EP]; C08L-023/16 [2006-01 A - I R M EP]; C08F-004/659 [2006-01 A - N R M EP]; C08F-004/6592 [2006-01 A - N R M EP]

**ICCA** - C08F-010/00 [2006 C - I R M EP]; C08F-210/00 [2006 C - I R M EP]; C08L-023/00 [2006 C - I R M EP]; C08F-004/00 [2006 C - N R M EP]

**UP** - 2001-39

6 / 73 PLUSPAT - ©QUESTEL-ORBIT

**PN** - BR0015235 A 20021231 [BR200015235]

**STG** - (A) Patent Application

**OTI** - (A) Composições catalisadoras, métodos de polimerização, e polímeros disso

**PA** - (A) UNIVATION TECH LLC (US)

**IN** - (A) ERICKSON KERSTEN ANNE; KAROL FREDERICK J; SCHRECK DAVID JAMES; SZUL JOHN F; DANIELL PAUL T; GOODE MARK G; KWACK TAE HOON; MAWSON SIMON; MCKEE MATTHEW G; HOLT CAMP MATTHEW W; LOVEDAY DONALD R; MCCONVILLE DAVID H; WILLIAMS CLARK C

**IC** - (A) C08F-004/64 C08F-010/00 C08F-010/02

**AP** - BR0015235 20000515 [2000BR-0015235]

**PR** - US42538799 19991022 [1999US-0425387]  
US43540999 19991108 [1999US-0435409]  
US44355199 19991118 [1999US-0443551]  
US44281399 19991118 [1999US-0442813]  
US45179299 19991201 [1999US-0451792]  
US46017999 19991210 [1999US-0460179]  
WOUS0013313 20000515 [2000WO-US13313]

**ICAA** - C08F-010/00 [2006-01 A - I R M EP]; C08F-010/02 [2006-01 A - I R M EP]; C08F-210/16 [2006-01 A - I R M EP]; C08L-023/08 [2006-01 A - I R M EP]; C08L-023/16 [2006-01 A - I R M EP]; C08F-004/659 [2006-01 A - N R M EP]; C08F-004/6592 [2006-01 A - N R M EP]

**ICCA** - C08F-010/00 [2006 C - I R M EP]; C08F-210/00 [2006 C - I R M EP]; C08L-023/00 [2006 C - I R M EP]; C08F-004/00 [2006 C - N R M EP]

**UP** - 2003-03

7 / 73 PLUSPAT - ©QUESTEL-ORBIT

**PN** - BR0015236 A 20031104 [BR200015236]

**STG** - (A) Patent Application

**OTI** - (A) Métodos de inicialização para sistemas catalisadores múltiplos

**PA** - (A) UNIVATION TECH LLC (US)

**IN** - (A) SZUL JOHN F; ERICKSON KERSTEN ANNE; MAWSON SIMON; DANIELL PAUL T; GOODE MARK G; MCKEE MATTHEW G



**IC** - (A) C08F-010/00 C08F-010/02  
**AP** - BR0015236 20000515 [2000BR-0015236]  
**PR** - WOUS0013378 20000515 [2000WO-US13378]  
 US42538799 19991022 [1999US-0425387]  
 US45623499 19991207 [1999US-0456234]  
**ICAA** - C08F-002/34 [2006-01 A F I R M JP]; C08F-002/00 [2006-01 A L I R M JP];  
 C08F-004/64 [2006-01 A L I R M JP]; C08F-010/00 [2006-01 A - I R M EP];  
 C08F-210/16 [2006-01 A - I R M EP]; C08L-023/08 [2006-01 A - I R M EP]  
 C08F-004/659 [2006-01 A - N R M EP]; C08F-004/6592 [2006-01 A - N R M  
 EP]  
**ICCA** - C08F-002/34 [2006 C F I R M JP]; C08F-002/00 [2006 C L I R M JP]; C08F-  
 004/00 [2006 C L I R M JP]; C08F-010/00 [2006 C - I R M EP]; C08F-210/00  
 [2006 C - I R M EP]; C08L-023/00 [2006 C - I R M EP]  
**EC** - C08F-210/16 C08F-004:659B  
 C08F-010/00 C08F-002:00  
**ICO** - M08F-210/16 M08F-210:14 &MFI &MWDBI &LMW &Hmw  
 M08F-004/659  
 M08F-004/659K  
 M08F-004/6592  
 M08L-023/08A1  
**UP** - 2003-45

---

8 / 73 PLUSPAT - ©QUESTEL-ORBIT

**PN** - BR0016035 A 20020730 [BR200016035]  
**STG** - (A) Patent Application  
**OTI** - (A) Alimentação de solução de catalisadores múltiplos  
**PA** - (A) UNIVATION TECH LLC (US)  
**IN** - (A) SCHRECK DAVID JAMES; SZUL JOHN F; DANIELL PAUL T; GOODE  
 MARK G; MAWSON SIMON; MCKEE MATTHEW G; ERIKSON KERSTEN  
 ANNE; WILLIAMS CLARK C  
**IC** - (A) C08F-210/16  
**AP** - BR0016035 20000515 [2000BR-0016035]  
**PR** - US45179299 19991201 [1999US-0451792]  
 WOUS0013373 20000515 [2000WO-US13373]  
**ICAA** - C08F-010/02 [2006-01 A - I R M EP]; C08F-210/16 [2006-01 A - I R M EP];  
 C08L-023/08 [2006-01 A - I R M EP]; C08L-023/16 [2006-01 A - I R M EP]  
 C08F-004/659 [2006-01 A - N R M EP]; C08F-004/6592 [2006-01 A - N R M  
 EP]  
**ICCA** - C08F-010/00 [2006 C - I R M EP]; C08F-210/00 [2006 C - I R M EP]; C08L-  
 023/00 [2006 C - I R M EP]  
 C08F-004/00 [2006 C - N R M EP]  
**UP** - 2002-31

---

1 / 1 LEGALI - ©EPO

**PN** - BR0016035 A 20020730 [BR200016035]

**AP** - BR0016035 20000515 [2000BR-0016035]  
**ACTE** - 20070227 BR/B06G-A  
 TECHNICAL AND FORMAL REQUIREMENTS: OTHER REQUIREMENTS  
 PARA QUE A SOLICITACAO REQUERIDA NA PETICAO NO042030 DE  
 02/08/2002 SEJA ATENDIDA, APRESENTE DOCUMENTO QUE  
 COMPROVE TAL PEDIDO.  
**UP** - 2007-10

9/73 PLUSPAT - ©QUESTEL-ORBIT

**PN** - CA2388137 A1 20010503 [CA2388137]  
**STG** - (A1) Application laid open  
**TI** - (A1) CATALYST COMPOSITIONS, METHODS OF POLYMERIZATION,  
 AND POLYMERS THEREFROM  
**OTI** - (A1) COMPOSITIONS CATALYTIQUES, PROCEDES DE  
 POLYMERISATION ET POLYMERES FABRIQUES A PARTIR DE CES  
 COMPOSITIONS  
**PA** - (A1) UNIVATION TECH LLC (US)  
**IN** - (A1) ERICKSON KERSTEN ANNE (US); KAROL FREDERICK J (US);  
 SCHRECK DAVID JAMES (US); SZUL JOHN F (US); DANIELL PAUL T  
 (US); GOODE MARK G (US); KWACK TAE HOON (US); MAWSON  
 SIMON (US); MCKEE MATTHEW G (US); HOLTCAMP MATTHEW W  
 (US); LOVEDAY DONALD R (US); MCCONVILLE DAVID H (US);  
 WILLIAMS CLARK C (US)  
**IC** - (A1) C08F-004/64 C08F-010/00 C08F-010/02  
**LA** - ENGLISH (ENG)  
**AP** - CA2388137 20000515 [2000CA-2388137]  
**PR** - US42538799 19991022 [1999US-0425387]  
 US43540999 19991108 [1999US-0435409]  
 US44355199 19991118 [1999US-0443551]  
 US44281399 19991118 [1999US-0442813]  
 US45179299 19991201 [1999US-0451792]  
 US46017999 19991210 [1999US-0460179]  
 WOUS0013313 20000515 [2000WO-US13313]  
**ICAA** - C08F-010/00 [2006-01 A - I R M EP]; C08F-010/02 [2006-01 A - I R M EP];  
 C08F-210/16 [2006-01 A - I R M EP]; C08L-023/08 [2006-01 A - I R M EP];  
 C08L-023/16 [2006-01 A - I R M EP]  
 C08F-004/659 [2006-01 A - N R M EP]; C08F-004/6592 [2006-01 A - N R M  
 EP]  
**ICCA** - C08F-010/00 [2006 C - I R M EP]; C08F-210/00 [2006 C - I R M EP]; C08L-  
 023/00 [2006 C - I R M EP]  
 C08F-004/00 [2006 C - N R M EP]  
**UP** - 2003-18

1/1 LEGALI - ©EPO

**PN** - CA2388137 A1 20010503 [CA2388137]

**AP** - CA2388137 20000515 [2000CA-2388137]

**ACTE** - 20020422 CA/AFNE-A [+]  
NATIONAL PHASE ENTRY

20020422 CA/EEER-A [+]  
EXAMINATION REQUEST

20030403 CA/AFNE-A [+]  
NATIONAL PHASE ENTRY  
EFFECTIVE DATE: 20020422

20030403 CA/EEER-A [+]  
EXAMINATION REQUEST  
EFFECTIVE DATE: 20020422

**UP** - 2006-20

10 / 73 PLUSPAT - ©QUESTEL-ORBIT

**PN** - CA2388145 A1 20010503 [CA2388145]

**STG** - (A1) Application laid open

**TI** - (A1) START UP METHODS FOR MULTIPLE CATALYST SYSTEMS

**OTI** - (A1) PROCEDES DE MISE EN ROUTE DE SYSTEMES A CATALYSEURS  
MULTIPLES

**PA** - (A1) UNIVATION TECH LLC (US)

**IN** - (A1) DANIELL PAUL THEODORE (US); GOODE MARK GREGORY (US);  
MAWSON SIMON (US); SZUL JOHN F (US); ERICKSON KERSTEN ANNE  
(US); MCKEE MATTHEW GARY (US)

**IC** - (A1) C08F-010/00 C08F-010/02

**LA** - ENGLISH (ENG)

**AP** - CA2388145 20000515 [2000CA-2388145]

**PR** - WOUS0013378 20000515 [2000WO-US13378]  
US42538799 19991022 [1999US-0425387]  
US45623499 19991207 [1999US-0456234]

**ICAA** - C08F-002/34 [2006-01 A F I R M JP]; C08F-002/00 [2006-01 A L I R M JP];  
C08F-004/64 [2006-01 A L I R M JP]; C08F-010/00 [2006-01 A - I R M EP];  
C08F-210/16 [2006-01 A - I R M EP]; C08L-023/08 [2006-01 A - I R M EP]  
C08F-004/659 [2006-01 A - N R M EP]; C08F-004/6592 [2006-01 A - N R M  
EP]

**ICCA** - C08F-002/34 [2006 C F I R M JP]; C08F-002/00 [2006 C L I R M JP]; C08F-  
004/00 [2006 C L I R M JP]; C08F-010/00 [2006 C - I R M EP]; C08F-210/00  
[2006 C - I R M EP]; C08L-023/00 [2006 C - I R M EP]

**EC** - C08F-210/16 C08F-004:659B  
C08F-010/00 C08F-002:00

**ICO** - M08F-210/16 M08F-210:14 &MFI &MWDBI &LMW &Hmw  
M08F-004/659  
M08F-004/659K  
M08F-004/6592

M08L-023/08A1

UP - 2003-18

---

*1 / 1 LEGALI - ©EPO*

PN - CA2388145 A1 20010503 [CA2388145]

AP - CA2388145 20000515 [2000CA-2388145]

ACTE - 20020422 CA/AFNE-A [+]  
NATIONAL PHASE ENTRY20020422 CA/EEER-A [+]  
EXAMINATION REQUEST20030403 CA/AFNE-A [+]  
NATIONAL PHASE ENTRY  
EFFECTIVE DATE: 2002042220030403 CA/EEER-A [+]  
EXAMINATION REQUEST  
EFFECTIVE DATE: 20020422

UP - 2006-20

---

*11 / 73 PLUSPAT - ©QUESTEL-ORBIT*

PN - CA2393347 A1 20010607 [CA2393347]

STG - (A1) Application laid open

TI - (A1) SOLUTION FEED OF MULTIPLE CATALYSTS

OTI - (A1) ALIMENTATION DE PLUSIEURS CATALYSEURS EN SOLUTION

PA - (A1) UNIVATION TECH LLC (US)

IN - (A1) ERICKSON KERSTEN ANNE (US); SCHRECK DAVID JAMES (US);  
SZUL JOHN F (US); DANIELL PAUL T (US); GOODE MARK G (US);  
MAWSON SIMON (US); MCKEE MATTHEW G (US); WILLIAMS CLARK  
C (US)

IC - (A1) C08F-002/34 C08F-210/16

PN2 - CA2393347 C 20050719 [CA2393347]

STG2 - (C) Patent

TI2 - (C) SOLUTION FEED OF MULTIPLE CATALYSTS

OTI2 - (C) ALIMENTATION DE PLUSIEURS CATALYSEURS EN SOLUTION

PA2 - (C) UNIVATION TECH LLC (US)

IN2 - (C) ERICKSON KERSTEN ANNE (US); SCHRECK DAVID JAMES (US);  
SZUL JOHN F (US); DANIELL PAUL T (US); GOODE MARK G (US);  
MAWSON SIMON (US); MCKEE MATTHEW G (US); WILLIAMS CLARK  
C (US)

IC2 - (C) C08F-002/34 C08F-210/16

LA - ENGLISH (ENG)

AP - CA2393347 20000515 [2000CA-2393347]

**PR** - US45179299 19991201 [1999US-0451792]  
WOUS0013373 20000515 [2000WO-US13373]

**ICAA** - C08F-010/02 [2006-01 A - I R M EP]; C08F-210/16 [2006-01 A - I R M EP];  
C08L-023/08 [2006-01 A - I R M EP]; C08L-023/16 [2006-01 A - I R M EP]  
C08F-004/659 [2006-01 A - N R M EP]; C08F-004/6592 [2006-01 A - N R M EP]

**ICCA** - C08F-010/00 [2006 C - I R M EP]; C08F-210/00 [2006 C - I R M EP]; C08L-  
023/00 [2006 C - I R M EP]  
C08F-004/00 [2006 C - N R M EP]

**UP** - 2003-18

*1 / 1 LEGALI - ©EPO*

**PN** - CA2393347 A1 20010607 [CA2393347]CA2393347 C 20050719 [CA2393347]

**AP** - CA2393347 20000515 [2000CA-2393347]

**ACTE** - 20020531 CA/AFNE-A [+]  
NATIONAL PHASE ENTRY

20020531 CA/EEER-A [+]  
EXAMINATION REQUEST

20030403 CA/AFNE-A [+]  
NATIONAL PHASE ENTRY  
EFFECTIVE DATE: 20020531

20030403 CA/EEER-A [+]  
EXAMINATION REQUEST  
EFFECTIVE DATE: 20020531

**UP** - 2006-20

*12 / 73 PLUSPAT - ©QUESTEL-ORBIT*

**PN** - CN1391585 A 20030115 [CN1391585]

**STG** - (A) Unexamined application

**TI** - (A) Start up methods for multiple catalyst systems

**PA** - (A) UNIVATION TECH LLC (US)

**IN** - (A) SZUL J F (US); ERICKSON K A (US); MAWSON S (US)

**IC** - (A) C08F-010/00 C08F-010/02

**AP** - CN00816101 20000515 [2000CN-0816101]

**PR** - US42538799 19991022 [1999US-0425387]  
US45623499 19991207 [1999US-0456234]

**ICAA** - C08F-002/34 [2006-01 A F I R M JP]; C08F-002/00 [2006-01 A L I R M JP];  
C08F-004/64 [2006-01 A L I R M JP]; C08F-010/00 [2006-01 A - I R M EP];  
C08F-210/16 [2006-01 A - I R M EP]; C08L-023/08 [2006-01 A - I R M EP]  
C08F-004/659 [2006-01 A - N R M EP]; C08F-004/6592 [2006-01 A - N R M EP]

**ICCA** - C08F-002/34 [2006 C F I R M JP]; C08F-002/00 [2006 C L I R M JP]; C08F-

004/00 [2006 C L I R M JP]; C08F-010/00 [2006 C - I R M EP]; C08F-210/00 [2006 C - I R M EP]; C08L-023/00 [2006 C - I R M EP]

**EC** - C08F-210/16 C08F-004:659B  
C08F-010/00 C08F-002:00

**ICO** - M08F-210/16 M08F-210:14 &MFI &MWDBI &LMW &HMW  
M08F-004/659  
M08F-004/659K  
M08F-004/6592  
M08L-023/08A1

**UP** - 2005-08

13 / 73 PLUSPAT - ©QUESTEL-ORBIT

**PN** - CN1402739 A 20030312 [CN1402739]

**STG** - (A) Unexamined application

**TI** - (A) Catalyst compositions, methods of polymerization, and polymers therefrom

**PA** - (A) UNIVATION TECH LLC (US)

**IN** - (A) LOVEDAY D R (US); HOLTCAMP M W (US); MCCONVILLE D H (US)

**IC** - (A) C08F-004/64 C08F-010/00 C08F-010/02

**AP** - CN00816442 20000515 [2000CN-0816442]

**PR** - US42538799 19991022 [1999US-0425387]  
US43540999 19991108 [1999US-0435409]  
US44355199 19991118 [1999US-0443551]  
US44281399 19991118 [1999US-0442813]  
US45179299 19991201 [1999US-0451792]  
US46017999 19991210 [1999US-0460179]

**ICAA** - C08F-010/00 [2006-01 A - I R M EP]; C08F-010/02 [2006-01 A - I R M EP];  
C08F-210/16 [2006-01 A - I R M EP]; C08L-023/08 [2006-01 A - I R M EP];  
C08L-023/16 [2006-01 A - I R M EP]  
C08F-004/659 [2006-01 A - N R M EP]; C08F-004/6592 [2006-01 A - N R M EP]

**ICCA** - C08F-010/00 [2006 C - I R M EP]; C08F-210/00 [2006 C - I R M EP]; C08L-023/00 [2006 C - I R M EP]  
C08F-004/00 [2006 C - N R M EP]

**UP** - 2005-08

14 / 73 PLUSPAT - ©QUESTEL-ORBIT.

**PN** - CN1409732 A 20030409 [CN1409732]

**STG** - (A) Unexamined application

**TI** - (A) Solution feed of multiple catalysts

**PA** - (A) UNIVATION TECH LLC (US)

**IN** - (A) ERICKSON K A (US); MAWSON S (US); SZUL J F (US)

**IC** - (A) C08F-210/16

**PN2** - CN1185270 C 20050119 [CN1185270C]

**STG2** - (C) Granted patent

**TI2** - (C) Solution feed of multiple catalysts  
**PA2** - (C) UNIVATION TECH LLC (US)  
**IN2** - (C) ERICKSON K A (US); MAWSON S (US); SZUL J F (US)  
**IC2** - (C) C08F-210/16  
**AP** - CN00817100 20000515 [2000CN-0817100]  
**PR** - US45179299 19991201 [1999US-0451792]  
**ICAA** - C08F-010/02 [2006-01 A - I R M EP]; C08F-210/16 [2006-01 A - I R M EP];  
 C08L-023/08 [2006-01 A - I R M EP]; C08L-023/16 [2006-01 A - I R M EP]  
 C08F-004/659 [2006-01 A - N R M EP]; C08F-004/6592 [2006-01 A - N R M  
 EP]  
**ICCA** - C08F-010/00 [2006 C - I R M EP]; C08F-210/00 [2006 C - I R M EP]; C08L-  
 023/00 [2006 C - I R M EP]  
 C08F-004/00 [2006 C - N R M EP]  
**UP** - 2005-08

---

*15 / 73 PLUSPAT - ©QUESTEL-ORBIT*

**PN** - CZ20021400 A3 20021113 [CZ200201400]  
**STG** - (A3) Application for patent  
**TI** - (A3) Start up methods for multiple catalyst systems  
**PA** - (A3) UNIVATION TECHNOLOGIES (US)  
**IN** - (A3) SZUL JOHN F (US); ERICKSON KERSTEN ANNE (US); MAWSON  
 SIMON (US); DANIELL PAUL T (US); GOODE MARK G (US); MCKEE  
 MATTHEW G (US)  
**IC** - (A3) C08F-010/00 C08F-010/02  
**AP** - CZ20021400 20000515 [2002CZ-0001400]  
**PR** - US42538799 19991022 [1999US-0425387]  
 US45623499 19991207 [1999US-0456234]  
**ICAA** - C08F-002/34 [2006-01 A F I R M JP]; C08F-002/00 [2006-01 A L I R M JP];  
 C08F-004/64 [2006-01 A L I R M JP]; C08F-010/00 [2006-01 A - I R M EP];  
 C08F-210/16 [2006-01 A - I R M EP]; C08L-023/08 [2006-01 A - I R M EP]  
 C08F-004/659 [2006-01 A - N R M EP]; C08F-004/6592 [2006-01 A - N R M  
 EP]  
**ICCA** - C08F-002/34 [2006 C F I R M JP]; C08F-002/00 [2006 C L I R M JP]; C08F-  
 004/00 [2006 C L I R M JP]; C08F-010/00 [2006 C - I R M EP]; C08F-210/00  
 [2006 C - I R M EP]; C08L-023/00 [2006 C - I R M EP]  
**EC** - C08F-210/16 C08F-004:659B  
 C08F-010/00 C08F-002:00  
**ICO** - M08F-210/16 M08F-210:14 &MFI &MWDBI &LMW &HMW  
 M08F-004/659  
 M08F-004/659K  
 M08F-004/6592  
 M08L-023/08A1  
**UP** - 2003-03

---

*16 / 73 PLUSPAT - ©QUESTEL-ORBIT*

**PN** - CZ20021402 A3 20021113 [CZ200201402]  
**STG** - (A3) Application for patent  
**TI** - (A3) Catalyst compositions, polymerization processes, and polymers produced in these processes  
**PA** - (A3) UNIVATION TECHNOLOGIES (US)  
**IN** - (A3) ERICKSON KERSTEN ANNE (US); KAROL FREDERICK J (US); SCHRECK DAVID JAMES (US); SZUL JOHN F (US); DANIELL PAUL T (US); GOODE MARK G (US); KWACK TAE HOON (US); MAWSON SIMON (US); MCKEE MATTHEW G (US); HOLTCAMP MATTHEW W (US); LOVEDAY DONALD R (US); MCCONVILLE DAVID H (US); WILLIAMS CLARK C (US)  
**IC** - (A3) C08F-004/64 C08F-010/00 C08F-010/02  
**AP** - CZ20021402 20000515 [2002CZ-0001402]  
**PR** - US42538799 19991022 [1999US-0425387]  
     US43540999 19991108 [1999US-0435409]  
     US44355199 19991118 [1999US-0443551]  
     US44281399 19991118 [1999US-0442813]  
     US45179299 19991201 [1999US-0451792]  
     US46017999 19991210 [1999US-0460179]  
**ICAA** - C08F-010/00 [2006-01 A - I R M EP]; C08F-010/02 [2006-01 A - I R M EP]; C08F-210/16 [2006-01 A - I R M EP]; C08L-023/08 [2006-01 A - I R M EP]; C08L-023/16 [2006-01 A - I R M EP]  
     C08F-004/659 [2006-01 A - N R M EP]; C08F-004/6592 [2006-01 A - N R M EP]  
**ICCA** - C08F-010/00 [2006 C - I R M EP]; C08F-210/00 [2006 C - I R M EP]; C08L-023/00 [2006 C - I R M EP]  
     C08F-004/00 [2006 C - N R M EP]  
**UP** - 2003-03

*17 / 73 PLUSPAT - ©QUESTEL-ORBIT*

**PN** - DE60012051 D1 20040812 [DE60012051]  
**STG** - (D1) Granted EP number in bulletin  
**OTI** - (D1) IN FLÜSSIGER FORM ZUZUSETZENDE MEHRFACHKATALYSATOREN  
**PA** - (D1) UNIVATION TECH LLC (US)  
**IN** - (D1) DANIELL T (US); ERICKSON ANNE (US); GOODE G (US); MCKEE G (US); SCHRECK JAMES (US); MAWSON SIMON (US); SZUL F (US); WILLIAMS C (US)  
**IC** - (D1) C08F-210/16  
**PN2** - DE60012051 T2 20050728 [DE60012051]  
**STG2** - (T2) Trans. Of EP patent  
**OTI2** - (T2) IN FLÜSSIGER FORM ZUZUSETZENDE MEHRFACHKATALYSATOREN  
**PA2** - (T2) UNIVATION TECH LLC (US)



**IN2** - (T2) DANIELL T (US); ERICKSON ANNE (US); GOODE G (US); MCKEE G (US); SCHRECK JAMES (US); MAWSON SIMON (US); SZUL F (US); WILLIAMS C (US)  
**IC2** - (T2) C08F-210/16  
**AP** - DE60012051 20000515 [2000DE-6012051]  
**PR** - US45179299 19991201 [1999US-0451792]  
 WOUS0013373 20000515 [2000WO-US13373]  
**ICAA** - C08F-010/02 [2006-01 A - I R M EP]; C08F-210/16 [2006-01 A - I R M EP]; C08L-023/08 [2006-01 A - I R M EP]; C08L-023/16 [2006-01 A - I R M EP] C08F-004/659 [2006-01 A - N R M EP]; C08F-004/6592 [2006-01 A - N R M EP]  
**ICCA** - C08F-010/00 [2006 C - I R M EP]; C08F-210/00 [2006 C - I R M EP]; C08L-023/00 [2006 C - I R M EP] C08F-004/00 [2006 C - N R M EP]  
**UP** - 2004-33

---

18 / 73 PLUSPAT - ©QUESTEL-ORBIT

**PN** - DE60034705 D1 20070614 [DE60034705]  
**STG** - (D1) Granted EP number in bulletin  
**OTI** - (D1) VERFAHREN ZUM ANFAHREN VON MEHRFACHKATALYSATORSYSTEME  
**PA** - (D1) UNIVATION TECH LLC (US)  
**PA0** - UNIVATION TECHNOLOGIES, LLC (US)  
**IN** - (D1) SZUL JOHN F (US); ERICKSON KERSTEN ANNE (US); MAWSON SIMON (US); DANIELL PAUL T (US); GOODE MARK G (US); MCKEE MATTHEW G (US)  
**IC** - (D1) C08F-002/00 C08F-002/34 C08F-004/00 C08F-004/64 C08F-004/659 C08F-004/6592 C08F-010/00 C08F-010/02 C08F-210/00 C08F-210/16 C08L-023/00 C08L-023/08  
**AP** - DE60034705 20000515 [2000DE-6034705]  
**PR** - US42538799 19991022 [1999US-0425387]  
 US45623499 19991207 [1999US-0456234]  
 WOUS0013378 20000515 [2000WO-US13378]  
**ICAA** - C08F-002/34 [2006-01 A F I R M JP]; C08F-010/00 [2006-01 A F I B H EP]; C08F-002/00 [2006-01 A L I R M JP]; C08F-004/64 [2006-01 A L I R M JP]; C08F-010/02 [2006-01 A L I B H EP]; C08F-210/16 [2006-01 A - I R M EP]; C08L-023/08 [2006-01 A - I R M EP] C08F-004/659 [2006-01 A - N R M EP]; C08F-004/6592 [2006-01 A - N R M EP]  
**ICCA** - C08F-002/34 [2006 C F I R M JP]; C08F-010/00 [2006 C F I B H EP]; C08F-002/00 [2006 C L I R M JP]; C08F-004/00 [2006 C L I R M JP]; C08F-210/00 [2006 C - I R M EP]; C08L-023/00 [2006 C - I R M EP]  
**EC** - C08F-210/16 C08F-004:659B C08F-010/00 C08F-002:00  
**ICO** - M08F-004/659

M08F-004/659K  
M08F-004/6592  
M08F-210/16 M08F-210:14 &MFI &MWDBI &LMW &Hmw  
M08L-023/08A1

**DT** - Corresponding document  
**UP** - 2007-24

19 / 73 PLUSPAT - ©QUESTEL-ORBIT

**PN** - EG22804 A 20030831 [EG--22804]  
**STG** - (A) Patent  
**TI** - (A) Solution feed of multiple catalysts  
**PA** - (A) UNIVATION TECH LLC  
**IN** - (A) SZUL JOHN F  
**IC** - (A) C08F-010/00  
**AP** - EG20000627 20000515 [1927EG-0200006]  
**PR** - US45179299 19991201 [1999US-0451792]  
**ICAA** - C08F-010/02 [2006-01 A - I R M EP]; C08F-210/16 [2006-01 A - I R M EP];  
C08L-023/08 [2006-01 A - I R M EP]; C08L-023/16 [2006-01 A - I R M EP]  
C08F-004/659 [2006-01 A - N R M EP]; C08F-004/6592 [2006-01 A - N R M  
EP]  
**ICCA** - C08F-010/00 [2006 C - I R M EP]; C08F-210/00 [2006 C - I R M EP]; C08L-  
023/00 [2006 C - I R M EP]  
C08F-004/00 [2006 C - N R M EP]  
**UP** - 2004-04

20 / 73 PLUSPAT - ©QUESTEL-ORBIT

**PN** - EG22868 A 20030930 [EG--22868]  
**STG** - (A) Patent  
**TI** - (A) Catalyst compositions methods of polymerization and polymers therefrom  
**PA** - (A) UNIVATION TECH LLC  
**IN** - (A) MCCONVILLE DAVID H  
**IC** - (A) C08F-010/00 C08F-010/02  
**AP** - EG20000626 20000515 [1926EG-0200006]  
**PR** - US42538799 19991022 [1999US-0425387]  
US43540999 19991108 [1999US-0435409]  
US44355199 19991118 [1999US-0443551]  
**ICAA** - C08F-010/00 [2006-01 A - I R M EP]; C08F-010/02 [2006-01 A - I R M EP]  
**ICCA** - C08F-010/00 [2006 C - I R M EP]  
**UP** - 2004-04

21 / 73 PLUSPAT - ©QUESTEL-ORBIT

**PN** - EP1226190 A1 20020731 [EP1226190]

**STG** - (A1) Public. Of applic. With search report  
**TI** - (A1) CATALYST COMPOSITIONS, METHODS OF POLYMERIZATION, AND POLYMERS THEREFROM  
**OTI** - (A1) KATALYSATORZUSAMMENSETZUNGEN, POLYMERISATIONSVERFAHREN, UND POLYMERE DARAUS  
 (A1) COMPOSITIONS CATALYTIQUES, PROCEDES DE POLYMERISATION ET POLYMERES FABRIQUES A PARTIR DE CES COMPOSITIONS  
**PA** - (A1) UNIVATION TECH LLC (US)  
**PA0** - Univation Technologies LLC; Suite 1950, 5555 San Felipe; Houston, TX 77056 (US)  
**IN** - (A1) MCCONVILLE DAVID H (US); LOVEDAY DONALD R (US); HOLT CAMP MATTHEW W (US); SZUL JOHN F (US); ERICKSON KERSTEN ANNE (US); MAWSON SIMON (US); KWACK TAE HOON (US); KAROL FREDERICK J (US); SCHRECK DAVID JAMES (US); GOODE MARK G (US); DANIELL PAUL T (US); MCKEE MATTHEW G (US); WILLIAMS CLARK C (US)  
**IC** - (A1) C08F-004/64 C08F-010/00 C08F-010/02  
**LA** - ENGLISH (ENG)  
**AP** - EP00928987 20000515 [2000EP-0928987]  
**PR** - WOUS0013313 20000515 [2000WO-US13313].  
 US42538799 19991022 [1999US-0425387]  
 US43540999 19991108 [1999US-0435409]  
 US44355199 19991118 [1999US-0443551]  
 US44281399 19991118 [1999US-0442813]  
 US45179299 19991201 [1999US-0451792]  
 US46017999 19991210 [1999US-0460179]  
**ICAA** - C08J-005/18 [2006-01 A F I R M JP]; C08F-004/64 [2006-01 A - I R M WO]; C08F-004/659 [2006-01 A L I R M JP]; C08F-010/00 [2006-01 A - I R M EP]; C08F-010/02 [2006-01 A - I R M EP]; C08F-210/16 [2006-01 A - I R M EP]; C08L-023/08 [2006-01 A - I R M EP]; C08L-023/16 [2006-01 A - I R M EP] C08F-004/6592 [2006-01 A - N R M EP]  
**ICCA** - C08J-005/18 [2006 C F I R M JP]; C08F-004/00 [2006 C - I R M WO]; C08F-010/00 [2006 C - I R M EP]; C08F-210/00 [2006 C - I R M EP]; C08L-023/00 [2006 C - I R M EP]  
**EC** - C08F-010/00 C08F-002:00  
 C08F-010/02 C08F-004:02D  
 C08F-010/02 C08F-004:64  
 C08F-010/02 C08F-004:659  
 C08F-010/02 C08F-004:659B  
 C08F-210/16  
 C08L-023/08A1 &B2  
 C08L-023/16 &B2  
**ICO** - M08F-004/659  
 M08F-004/659K  
 M08F-004/659L  
 M08F-004/6592  
 M08F-210/16 M08F-210:14 &MFI &MWDB &LMW &HMW &FILM

M08F-210/16 M08F-210:14 &MFI &MWDBI &LMW &HMW  
M08L-023/08A1  
M08L-205/02  
M08L-314/06

**DS** - AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE  
**DT** - Corresponding document  
**UP** - 2002-31

---

*1 / 1 LEGALI - ©EPO*

**PN** - EP1226190 A1 20020731 [EP1226190]  
**AP** - EP00928987 20000515 [2000EP-0928987]

**ACTE** -  
20020731 EP/AX-A [+]  
EXTENSION OF THE EUROPEAN PATENT TO  
AL;LT;LV;MK;RO;SI

20020731 EP/AK-A [+]  
DESIGNATED CONTRACTING STATES:  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

20020731 EP/17P-A [+]  
REQUEST FOR EXAMINATION FILED  
EFFECTIVE DATE: 20020521

20021002 EP/RIN1-A  
INVENTOR (CORRECTION)  
MCCONVILLE, DAVID, H.

20021002 EP/RIN1-A  
INVENTOR (CORRECTION)  
LOVEDAY, DONALD, R.

20021002 EP/RIN1-A  
INVENTOR (CORRECTION)  
HOLTCAMP, MATTHEW, W.

20021002 EP/RIN1-A  
INVENTOR (CORRECTION)  
SZUL, JOHN, F.

20021002 EP/RIN1-A  
INVENTOR (CORRECTION)  
ERICKSON, KERSTEN, ANNE

20021002 EP/RIN1-A  
INVENTOR (CORRECTION)  
MAWSON, SIMON

20021002 EP/RIN1-A

INVENTOR (CORRECTION)  
KWACK, TAE, HOON

20021002 EP/RIN1-A  
INVENTOR (CORRECTION)  
KAROL, FREDERICK, J.

20031210 EP/17Q-A [+]  
FIRST EXAMINATION REPORT  
EFFECTIVE DATE: 20031023

20061122 EP/17Q-A [+]  
FIRST EXAMINATION REPORT  
EFFECTIVE DATE: 20031023

20070627 EP/17Q-A [+]  
FIRST EXAMINATION REPORT  
EFFECTIVE DATE: 20031023

**UP** - 2007-26

---

22 / 73 *PLUSPAT - ©QUESTEL-ORBIT*

**PN** - EP1242476 A1 20020925 [EP1242476]  
**STG** - (A1) Public. Of applic. With search report  
**TI** - (A1) START UP METHODS FOR MULTIPLE CATALYST SYSTEMS  
**OTI** - (A1) VERFAHREN ZUM ANFAHREN VON  
 MEHRFACHKATALYSATORSYSTEME  
 (A1) PROCEDES DE MISE EN ROUTE DE SYSTEMES A CATALYSEURS  
 MULTIPLES  
**PA** - (A1) UNIVATION TECH LLC (US)  
**PA0** - Univation Technologies LLC; Suite 1950, 5555 San Felipe; Houston, TX 77056  
 (US)  
**IN** - (A1) SZUL JOHN F (US); ERICKSON KERSTEN ANNE (US); MAWSON  
 SIMON (US); DANIELL PAUL T (US); GOODE MARK G (US); MCKEE  
 MATTHEW G (US)  
**IC** - (A1) C08F-010/00 C08F-010/02  
**PN2** - EP1242476 B1 20070502 [EP1242476]  
**STG2** - (B1) Patent  
**TI2** - (B1) START UP METHODS FOR MULTIPLE CATALYST SYSTEMS  
**OTI2** - (B1) VERFAHREN ZUM ANFAHREN VON  
 MEHRFACHKATALYSATORSYSTEME  
 (B1) PROCEDES DE MISE EN ROUTE DE SYSTEMES A CATALYSEURS  
 MULTIPLES  
**PA2** - (B1) UNIVATION TECH LLC (US)  
**IN2** - (B1) SZUL JOHN F (US); ERICKSON KERSTEN ANNE (US); MAWSON  
 SIMON (US); DANIELL PAUL T (US); GOODE MARK G (US); MCKEE  
 MATTHEW G (US)

**IC2** - (B1) C08F-002/00 C08F-002/34 C08F-004/00 C08F-004/64 C08F-004/659  
 C08F-004/6592 C08F-010/00 C08F-010/02 C08F-210/00 C08F-210/16 C08L-  
 023/00 C08L-023/08  
**LA** - ENGLISH (ENG)  
**AP** - EP00932463 20000515 [2000EP-0932463]  
**PR** - WOUS0013378 20000515 [2000WO-US13378]  
 US42538799 19991022 [1999US-0425387]  
 US45623499 19991207 [1999US-0456234]  
**ICAA** - C08F-002/34 [2006-01 A F I R M JP]; C08F-010/00 [2006-01 A F I B H EP];  
 C08F-002/00 [2006-01 A L I R M JP]; C08F-004/64 [2006-01 A L I R M JP];  
 C08F-010/02 [2006-01 A L I B H EP]; C08F-210/16 [2006-01 A - I R M EP];  
 C08L-023/08 [2006-01 A - I R M EP]  
 C08F-004/659 [2006-01 A - N R M EP]; C08F-004/6592 [2006-01 A - N R M  
 EP]  
**ICCA** - C08F-002/34 [2006 C F I R M JP]; C08F-010/00 [2006 C F I B H EP]; C08F-  
 002/00 [2006 C L I R M JP]; C08F-004/00 [2006 C L I R M JP]; C08F-210/00  
 [2006 C - I R M EP]; C08L-023/00 [2006 C - I R M EP]  
**EC** - C08F-210/16 C08F-004:659B  
 C08F-010/00 C08F-002:00  
**ICO** - M08F-210/16 M08F-210:14 &MFI &MWDBI &LMW &HWW  
 M08F-004/659  
 M08F-004/659K  
 M08F-004/6592  
 M08L-023/08A1  
**DS** - AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE  
 AL LT LV MK RO SI  
**UP** - 2002-39

---

*1 / 1 LEGALI - ©EPO*

**PN** - EP1242476 A1 20020925 [EP1242476]EP1242476 B1 20070502 [EP1242476]  
**AP** - EP00932463 20000515 [2000EP-0932463]  
**ACTE** - 20020925 EP/AX-A [+]
   
EXTENSION OF THE EUROPEAN PATENT TO
   
AL;LT;LV;MK;RO;SI
   
  
 20020925 EP/AK-A [+]
   
DESIGNATED CONTRACTING STATES:
   
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE
   
  
 20020925 EP/17P-A [+]
   
REQUEST FOR EXAMINATION FILED
   
EFFECTIVE DATE: 20020522
   
  
 20021113 EP/RIN1-A
   
INVENTOR (CORRECTION)
   
SZUL, JOHN, F.

20021113 EP/RIN1-A  
INVENTOR (CORRECTION)  
ERICKSON, KERSTEN, ANNE

20021113 EP/RIN1-A  
INVENTOR (CORRECTION)  
MAWSON, SIMON

20021113 EP/RIN1-A  
INVENTOR (CORRECTION)  
DANIELL, PAUL, T.

20021113 EP/RIN1-A  
INVENTOR (CORRECTION)  
GOODE, MARK, G.

20021113 EP/RIN1-A  
INVENTOR (CORRECTION)  
MCKEE, MATTHEW, G.

20031210 EP/17Q-A [+]  
FIRST EXAMINATION REPORT  
EFFECTIVE DATE: 20031023

20070502 EP/AK-A [+]  
DESIGNATED CONTRACTING STATES:  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

20070502 EP/REG-A; GB/FG4D [+]  
GB: EUROPEAN PATENT GRANTED  
<GB>

20070531 EP/REG-A; CH/EP [+]  
CH: ENTRY IN THE NATIONAL PHASE  
<CH>

20070613 EP/REG-A; IE/FG4D [+]  
IE: EUROPEAN PATENTS GRANTED DESIGNATING IRELAND  
<IE>

20070614 EP/REF-A  
CORRESPONDS TO:  
(DE 60034705 20070614 [DE60034705])

UP - 2007-29

---

23 / 73 PLUSPAT - ©QUESTEL-ORBIT

PN - EP1244718 A1 20021002 [EP1244718]

STG - (A1) Public. Of applic. With search report

TI - (A1) SOLUTION FEED OF MULTIPLE CATALYSTS

**OTI** - (A1) ALIMENTATION DE PLUSIEURS CATALYSEURS EN SOLUTION  
**PA** - (A1) UNIVATION TECH LLC (US)  
**PA0** - Univation Technologies LLC; Suite 1950, 5555 San Felipe; Houston, TX 77056 (US)  
**IN** - (A1) ERICKSON KERSTEN ANNE (US); SCHRECK DAVID JAMES (US); SZUL JOHN F (US); DANIELL PAUL T (US); GOODE MARK G (US); MAWSON SIMON (US); MCKEE MATTHEW G (US); WILLIAMS CLARK C (US)  
**IC** - (A1) C08F-210/16  
**PN2** - EP1244718 B1 20040707 [EP1244718]  
**STG2** - (B1) Patent  
**TI2** - (B1) SOLUTION FEED OF MULTIPLE CATALYSTS  
**OTI2** - (B1) IN FLÜSSIGER FORM ZUZUSETZENDE MEHRFACHKATALYSATOREN  
 (B1) ALIMENTATION DE PLUSIEURS CATALYSEURS EN SOLUTION  
**PA2** - (B1) UNIVATION TECH LLC (US)  
**IN2** - (B1) ERICKSON KERSTEN ANNE (US); SCHRECK DAVID JAMES (US); SZUL JOHN F (US); DANIELL PAUL T (US); GOODE MARK G (US); MAWSON SIMON (US); MCKEE MATTHEW G (US); WILLIAMS CLARK C (US)  
**IC2** - (B1) C08F-210/16  
**LA** - ENGLISH (ENG)  
**AP** - EP00935979 20000515 [2000EP-0935979]  
**PR** - WOUS0013373 20000515 [2000WO-US13373]  
 US45179299 19991201 [1999US-0451792]  
**ICAA** - C08F-010/02 [2006-01 A - I R M EP]; C08F-210/16 [2006-01 A - I R M EP]; C08L-023/08 [2006-01 A - I R M EP]; C08L-023/16 [2006-01 A - I R M EP]  
 C08F-004/659 [2006-01 A - N R M EP]; C08F-004/6592 [2006-01 A - N R M EP]  
**ICCA** - C08F-010/00 [2006 C - I R M EP]; C08F-210/00 [2006 C - I R M EP]; C08L-023/00 [2006 C - I R M EP]  
 C08F-004/00 [2006 C - N R M EP]  
**DS** - AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE  
**UP** - 2002-40

---

**1 / 1 LEGALI - ©EPO**

**PN** - EP1244718 A1 20021002 [EP1244718]EP1244718 B1 20040707 [EP1244718]  
**AP** - EP00935979 20000515 [2000EP-0935979]  
**ACTE** - 20021002 EP/AK-A [+]  
 DESIGNATED CONTRACTING STATES:  
 AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE  
  
 20021002 EP/17P-A [+]  
 REQUEST FOR EXAMINATION FILED  
 EFFECTIVE DATE: 20020701



20021113 EP/RIN1-A  
INVENTOR (CORRECTION)  
SZUL, JOHN, F.

20021113 EP/RIN1-A  
INVENTOR (CORRECTION)  
ERICKSON, KERSTEN, ANNE

20021113 EP/RIN1-A  
INVENTOR (CORRECTION)  
MAWSON, SIMON

20021113 EP/RIN1-A  
INVENTOR (CORRECTION)  
SCHRECK, DAVID, JAMES

20021113 EP/RIN1-A  
INVENTOR (CORRECTION)  
GOODE, MARK, G.

20021113 EP/RIN1-A  
INVENTOR (CORRECTION)  
DANIELL, PAUL, T.

20021113 EP/RIN1-A  
INVENTOR (CORRECTION)  
MCKEE, MATTHEW, G.

20021113 EP/RIN1-A  
INVENTOR (CORRECTION)  
WILLIAMS, CLARK, C.

20040707 EP/AK-A [+]  
DESIGNATED CONTRACTING STATES:  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

20040707 EP/REG-A; GB/FG4D [+]  
GB: EUROPEAN PATENT GRANTED  
<GB>

20040715 EP/REG-A; CH/EP [+]  
CH: ENTRY IN THE NATIONAL PHASE  
<CH>

20040811 EP/REG-A; IE/FG4D [+]  
IE: EUROPEAN PATENTS GRANTED DESIGNATING IRELAND  
<IE>

20040812 EP/REF-A  
CORRESPONDS TO:

(DE 60012051 20040812 [DE60012051])

20050114 EP/REG-A; CH/PL [-]  
CH: PATENT CEASED  
<CH>

20050301 EP/REG-A; ES/FG2A  
ES: DEFINITIVE PROTECTION  
(ES 2223529T3 0 [ES2223529])

20050504 EP/25-A  
LAPSED IN A CONTRACTING STATE  
<GR>  
EFFECTIVE DATE: 20041007

20050513 EP/ET-A [+]  
FR: TRANSLATION FILED

20050525 EP/25-A [-]  
LAPSED IN A CONTRACTING STATE  
<LI>  
EFFECTIVE DATE: 20040707

20050525 EP/25-A [-]  
LAPSED IN A CONTRACTING STATE  
<GR>  
EFFECTIVE DATE: 20041007

20050601 EP/25-A [-]  
LAPSED IN A CONTRACTING STATE  
<CH>  
EFFECTIVE DATE: 20040707

20050601 EP/25-A [-]  
LAPSED IN A CONTRACTING STATE  
<LI>  
EFFECTIVE DATE: 20040707

20050601 EP/25-A [-]  
LAPSED IN A CONTRACTING STATE  
<DK>  
EFFECTIVE DATE: 20041007

20050601 EP/25-A [-]  
LAPSED IN A CONTRACTING STATE  
<GR>  
EFFECTIVE DATE: 20041007

20050629 EP/26N-A [+]  
NO OPPOSITION FILED  
EFFECTIVE DATE: 20050408

20060222 EP/REG-A; IE/MM4A [-]  
 IE: PATENT LAPSED  
 <IE>

20070201 EP/NLV4-A [-]  
 NL: LAPSED OR ANULLED DUE TO NON-PAYMENT OF THE ANNUAL  
 FEE  
 EFFECTIVE DATE: 20061201

**UP** - 2007-09

---

24 / 73 PLUSPAT - ©QUESTEL-ORBIT

**PN** - ES2223529 T3 20050301 [ES2223529]  
**STG** - (T3) Transl. Compl. Txt. Of grted Eur. Pat.  
**OTI** - (T3) ALIMENTACION DE MULTIPLES CATALIZADORES EN  
 SOLUCCION.  
**PA** - (T3) UNIVATION TECH LLC  
**IN** - (T3) ERICKSON KERSTEN ANNE (US); SCHRECK DAVID JAMES (US);  
 SZUL JOHN F (US); DANIELL PAUL T (US); GOODE MARK G (US);  
 MAWSON SIMON (US)  
**IC** - (T3) C08F-210/16  
**LA** - SPANISH (SPA)  
**AP** - ES00935979T 20000515 [2000ES-0935979]  
**PR** - US45179299 19991201 [1999US-0451792]  
**ICAA** - C08F-010/02 [2006-01 A - I R M EP]; C08F-210/16 [2006-01 A - I R M EP];  
 C08L-023/08 [2006-01 A - I R M EP]; C08L-023/16 [2006-01 A - I R M EP]  
 C08F-004/659 [2006-01 A - N R M EP]; C08F-004/6592 [2006-01 A - N R M  
 EP]  
**ICCA** - C08F-010/00 [2006 C - I R M EP]; C08F-210/00 [2006 C - I R M EP]; C08L-  
 023/00 [2006 C - I R M EP]  
 C08F-004/00 [2006 C - N R M EP]  
**UP** - 2005-14

---

25 / 73 PLUSPAT - ©QUESTEL-ORBIT

**PN** - IL149262 D0 20021110 [IL-149262]  
**STG** - (D0) Notice under sect. 16 patent law  
**TI** - (D0) CATALYST COMPOSITIONS, METHODS OF POLYMERIZATION,  
 AND POLYMERS THEREFROM  
**PA** - (D0) UNIVATION TECH LLC  
**IC** - (D0) C08F  
**AP** - IL14926200 20000515 [2000IL-0149262]  
**PR** -  
 US42538799 19991022 [1999US-0425387]  
 US43540999 19991108 [1999US-0435409]  
 US44355199 19991118 [1999US-0443551]

US44281399 19991118 [1999US-0442813]  
 US45179299 19991201 [1999US-0451792]  
 US46017999 19991210 [1999US-0460179]  
 WOUS0013313 20000515 [2000WO-US13313]  
**ICAA** - C08F-010/00 [2006-01 A - I R M EP]; C08F-010/02 [2006-01 A - I R M EP];  
 C08F-210/16 [2006-01 A - I R M EP]; C08L-023/08 [2006-01 A - I R M EP];  
 C08L-023/16 [2006-01 A - I R M EP]  
 C08F-004/659 [2006-01 A - N R M EP]; C08F-004/6592 [2006-01 A - N R M  
 EP]  
**ICCA** - C08F-010/00 [2006 C - I R M EP]; C08F-210/00 [2006 C - I R M EP]; C08L-  
 023/00 [2006 C - I R M EP]  
 C08F-004/00 [2006 C - N R M EP]  
**UP** - 2003-42

26 / 73 PLUSPAT - ©QUESTEL-ORBIT

**PN** - IL149263 D0 20021110 [IL-149263]  
**STG** - (D0) Notice under sect. 16 patent law  
**TI** - (D0) START UP METHODS FOR MULTIPLE CATALYST SYSTEMS  
**PA** - (D0) UNIVATION TECH LLC  
**IC** - (D0) C08F  
**AP** - IL14926300 20000515 [2000IL-0149263]  
**PR** - US42538799 19991022 [1999US-0425387]  
 US45623499 19991207 [1999US-0456234]  
 WOUS0013378 20000515 [2000WO-US13378]  
**ICAA** - C08F-010/00 [2006-01 A - I R M EP]; C08F-210/16 [2006-01 A - I R M EP];  
 C08L-023/08 [2006-01 A - I R M EP]  
 C08F-004/659 [2006-01 A - N R M EP]; C08F-004/6592 [2006-01 A - N R M  
 EP]  
**ICCA** - C08F-010/00 [2006 C - I R M EP]; C08F-210/00 [2006 C - I R M EP]; C08L-  
 023/00 [2006 C - I R M EP]  
 C08F-004/00 [2006 C - N R M EP]  
**UP** - 2003-42

27 / 73 PLUSPAT - ©QUESTEL-ORBIT

**PN** - IL149747 D0 20021110 [IL-149747]  
**STG** - (D0) Notice under sect. 16 patent law  
**TI** - (D0) SOLUTION FEED OF MULTIPLE CATALYST  
**PA** - (D0) UNIVATION TECH LLC  
**IC** - (D0) C08F  
**AP** - IL14974700 20000515 [2000IL-0149747]  
**PR** - US45179299 19991201 [1999US-0451792]  
 WOUS0013373 20000515 [2000WO-US13373]  
**ICAA** - C08F-010/02 [2006-01 A - I R M EP]; C08F-210/16 [2006-01 A - I R M EP];  
 C08L-023/08 [2006-01 A - I R M EP]; C08L-023/16 [2006-01 A - I R M EP]

C08F-004/659 [2006-01 A - N R M EP]; C08F-004/6592 [2006-01 A - N R M EP]  
**ICCA** - C08F-010/00 [2006 C - I R M EP]; C08F-210/00 [2006 C - I R M EP]; C08L-023/00 [2006 C - I R M EP]  
 C08F-004/00 [2006 C - N R M EP]  
**UP** - 2003-42

28 / 73 *PLUSPAT - ©QUESTEL-ORBIT*

**PN** - JP2003513114 T 20030408 [JP2003513114]  
**STG** - (T) Unexam. Pat. Appl. On foreign appl.  
**IC** - (T) C08F-004/64 C08F-010/00 C08J-005/18 C08L-023:04  
**AP** - JP2001533857T 20000515 [2001JP-0533857]  
**PR** - US42538799 19991022 [1999US-0425387]  
 US43540999 19991108 [1999US-0435409]  
 US44355199 19991118 [1999US-0443551]  
 US44281399 19991118 [1999US-0442813]  
 US45179299 19991201 [1999US-0451792]  
 US46017999 19991210 [1999US-0460179]  
 WOUS0013313 20000515 [2000WO-US13313]  
**ICAA** - C08F-010/00 [2006-01 A - I R M EP]; C08F-010/02 [2006-01 A - I R M EP];  
 C08F-210/16 [2006-01 A - I R M EP]; C08L-023/08 [2006-01 A - I R M EP];  
 C08L-023/16 [2006-01 A - I R M EP]  
 C08F-004/659 [2006-01 A - N R M EP]; C08F-004/6592 [2006-01 A - N R M EP]  
**ICCA** - C08F-010/00 [2006 C - I R M EP]; C08F-210/00 [2006 C - I R M EP]; C08L-023/00 [2006 C - I R M EP]  
 C08F-004/00 [2006 C - N R M EP]  
**UP** - 2003-19

29 / 73 *PLUSPAT - ©QUESTEL-ORBIT*

**PN** - JP2003513115 T 20030408 [JP2003513115]  
**STG** - (T) Unexam. Pat. Appl. On foreign appl.  
**IC** - (T) C08F-002/00 C08F-002/34 C08F-004/64 C08F-010/00  
**PN2** - JP3831664 B2 20061011 [JP3831664]  
**STG2** - (B2) Grant. Pat. With A from 2500000 on  
**IC2** - (B2) C08F-002/00 C08F-002/34 C08F-004/00 C08F-004/64 C08F-004/659  
 C08F-004/6592 C08F-010/00 C08F-210/00 C08F-210/16 C08L-023/00 C08L-023/08  
**AP** - JP2001533858T 20000515 [2001JP-0533858]  
**PR** - WOUS0013378 20000515 [2000WO-US13378]  
 US42538799 19991022 [1999US-0425387]  
 US45623499 19991207 [1999US-0456234]  
**ICAA** - C08F-002/34 [2006-01 A F I B H JP]; C08F-002/00 [2006-01 A L I B H JP];  
 C08F-004/64 [2006-01 A L I B H JP]; C08F-010/00 [2006-01 A L I B H JP];  
 C08F-210/16 [2006-01 A - I R M EP]; C08L-023/08 [2006-01 A - I R M EP]

C08F-004/659 [2006-01 A - N R M EP]; C08F-004/6592 [2006-01 A - N R M EP]

**ICCA** - C08F-002/34 [2006 C F I B H JP]; C08F-002/00 [2006 C L I B H JP]; C08F-004/00 [2006 C L I B H JP]; C08F-010/00 [2006 C L I B H JP]; C08F-210/00 [2006 C - I R M EP]; C08L-023/00 [2006 C - I R M EP]

**EC** - C08F-210/16 C08F-004:659B  
C08F-010/00 C08F-002:00

**ICO** - M08F-210/16 M08F-210:14 &MFI &MWDBI &LMW &Hmw  
M08F-004/659  
M08F-004/659K  
M08F-004/6592  
M08L-023/08A1

**UP** - 2003-19

---

30 / 73 PLUSPAT - ©QUESTEL-ORBIT

**PN** - JP2003515631 T 20030507 [JP2003515631]

**STG** - (T) Unexam. Pat. Appl. On foreign appl.

**IC** - (T) C08F-002/00 C08F-002/01 C08F-002/34 C08F-004/60 C08F-010/00

**AP** - JP2001541083T 20000515 [2001JP-0541083]

**PR** - US45179299 19991201 [1999US-0451792]  
WOUS0013373 20000515 [2000WO-US13373]

**ICAA** - C08F-010/02 [2006-01 A - I R M EP]; C08F-210/16 [2006-01 A - I R M EP];  
C08L-023/08 [2006-01 A - I R M EP]; C08L-023/16 [2006-01 A - I R M EP]  
C08F-004/659 [2006-01 A - N R M EP]; C08F-004/6592 [2006-01 A - N R M EP]

**ICCA** - C08F-010/00 [2006 C - I R M EP]; C08F-210/00 [2006 C - I R M EP]; C08L-023/00 [2006 C - I R M EP]  
C08F-004/00 [2006 C - N R M EP]

**FI** - C08F2/34; C08F2/00 A; C08F2/01; C08F4/60; C08F10/00; C08F4/6192

**FTM** - 4J011 BA06; 4J011 BB02; 4J011 BB04; 4J011 BB10; 4J011 BB15; 4J011 DA06; 4J011 DB13; 4J011 DB27; 4J011 MA02; 4J011 MA19; 4J028 AA01.A; 4J028 AB00.A; 4J028 AB01.A; 4J028 AC00.A; 4J028 AC02.A; 4J028 AC08.A; 4J028 AC09.A; 4J028 AC10.A; 4J028 AC18.A; 4J028 AC19.A; 4J028 AC20.A; 4J028 AC22.A; 4J028 AC26.A; 4J028 AC27.A; 4J028 AC28.A; 4J028 AC31.A; 4J028 AC37.A; 4J028 AC38.A; 4J028 AC39.A; 4J028 AC41.A; 4J028 AC42.A; 4J028 AC44.A; 4J028 AC45.A; 4J028 AC46.A; 4J028 AC47.A; 4J028 AC48.A; 4J028 AC49.A; 4J028 AC50.A; 4J028 BA00.A; 4J028 BA00.B; 4J028 BA01.B; 4J028 BB00.A; 4J028 BB00.B; 4J028 BB01.B; 4J028 BC12.B; 4J028 BC16.B; 4J028 BC25.B; 4J028 EB02; 4J028 EB04; 4J028 EB05; 4J028 EB07; 4J028 EB09; 4J028 EB10; 4J028 EB17; 4J028 EB26; 4J028 EC01; 4J028 EC02; 4J028 EC04; 4J028 EC06; 4J028 FA04; 4J028 FA06; 4J028 FA07; 4J028 GA01; 4J028 GA05; 4J028 GA06; 4J028 GA08; 4J128 AA02; 4J128 AA03; 4J128 AB01; 4J128 AC01; 4J128 AC03; 4J128 AC10; 4J128 AC13; 4J128 AC28; 4J128 AC49; 4J128 AC50; 4J128 AD05; 4J128 AD06; 4J128 AD07; 4J128 AD13; 4J128 AD16; 4J128 BA01.A; 4J128 BA01.B; 4J128 BA02.B; 4J128 BB01.A; 4J128 BB02.B; 4J128 BC15.A; 4J128 BC25.B; 4J128 EB02; 4J128 EB04; 4J128 EB05; 4J128 EB06; 4J128 EB08; 4J128 EB09; 4J128 EB10; 4J128 EC02;

4J128 EC04; 4J128 EC05; 4J128 FA02; 4J128 FA04; 4J100 AA02; 4J100 AA03; 4J100 AA04; 4J100 AA17; 4J100 CA01; 4J100 CA04; 4J100 FA22; 4J100 FA09; 4J100 FA11

**UP** - 2003-23

31 / 73 PLUSPAT - ©QUESTEL-ORBIT

**PN** - MXPA02003999 A 20021023 [MXPA02003999]

**STG** - (A) Patent of invention

**TI** - (A) CATALYST COMPOSITIONS, METHODS OF POLYMERIZATION, AND POLYMERS THEREFROM.

**OTI** - (A) COMPOSICIONES CATALIZADORAS, METODOS DE POLIMERIZACION, Y POLIMEROS A PARTIR DE ELLOS.

**PA** - (A) UNIVATION TECH LLC (US)

**IN** - (A) TAE HOON KWACK (US).

**IC** - (A) 08F-04/64 B 08F-10/00 A 08F-10/02 B

**LA** - SPANISH (SPA)

**AP** - MXPA02003999 20020422 [2002MX-PA03999]

**PR** - US42538799 19991022 [1999US-0425387]  
US43540999 19991108 [1999US-0435409]  
US44281399 19991118 [1999US-0442813]  
US44355199 19991118 [1999US-0443551]  
US45179299 19991201 [1999US-0451792]  
US46017999 19991210 [1999US-0460179]  
WOUS0013313 20000515 [2000WO-US13313]

**ICAA** - C08F-010/00 [2006-01 A - I R M EP]; C08F-010/02 [2006-01 A - I R M EP]; C08F-210/16 [2006-01 A - I R M EP]; C08L-023/08 [2006-01 A - I R M EP]; C08L-023/16 [2006-01 A - I R M EP]  
C08F-004/659 [2006-01 A - N R M EP]; C08F-004/6592 [2006-01 A - N R M EP]

**ICCA** - C08F-010/00 [2006 C - I R M EP]; C08F-210/00 [2006 C - I R M EP]; C08L-023/00 [2006 C - I R M EP]  
C08F-004/00 [2006 C - N R M EP]

**UP** - 2005-07

32 / 73 PLUSPAT - ©QUESTEL-ORBIT

**PN** - MXPA02004001 A 20021023 [MXPA02004001]

**STG** - (A) Patent of invention

**TI** - (A) START UP METHODS FOR MULTIPLE CATALYST SYSTEMS.

**OTI** - (A) METODOS DE ARRANQUE PARA SISTEMAS CATALIZADORES MULTIPLES.

**PA** - (A) UNIVATION TECH LLC (US)

**IN** - (A) SIMON MAWSON (US)

**IC** - (A) 08F-10/00 A 08F-10/02 B

**LA** - SPANISH (SPA)

**AP** - MXPA02004001 20020422 [2002MX-PA04001]  
**PR** - WOUS0013378 20000515 [2000WO-US13378]  
 US42538799 19991022 [1999US-0425387]  
 US45623499 19991207 [1999US-0456234]  
**ICAA** - C08F-002/34 [2006-01 A F I R M JP]; C08F-002/00 [2006-01 A L I R M JP];  
 C08F-004/64 [2006-01 A L I R M JP]; C08F-010/00 [2006-01 A - I R M EP];  
 C08F-210/16 [2006-01 A - I R M EP]; C08L-023/08 [2006-01 A - I R M EP]  
 C08F-004/659 [2006-01 A - N R M EP]; C08F-004/6592 [2006-01 A - N R M  
 EP]  
**ICCA** - C08F-002/34 [2006 C F I R M JP]; C08F-002/00 [2006 C L I R M JP]; C08F-  
 004/00 [2006 C L I R M JP]; C08F-010/00 [2006 C - I R M EP]; C08F-210/00  
 [2006 C - I R M EP]; C08L-023/00 [2006 C - I R M EP]  
**EC** - C08F-210/16 C08F-004:659B  
 C08F-010/00 C08F-002:00  
**ICO** - M08F-210/16 M08F-210:14 &MFI &MWDBI &LMW &HMW  
 M08F-004/659  
 M08F-004/659K  
 M08F-004/6592  
 M08L-023/08A1  
**UP** - 2005-07

---

 33 / 73 PLUSPAT - ©QUESTEL-ORBIT

**PN** - MXPA02005421 A 20021129 [MXPA02005421]  
**STG** - (A) Patent of invention  
**TI** - (A) SOLUTION FEED OF MULTIPLE CATALYSTS.  
**OTI** - (A) ALIMENTACION EN SOLUCION DE CATALIZADORES MULTIPLES.  
**PA** - (A) UNIVATION TECH LLC (US)  
**IN** - (A) SIMON MAWSON (US)  
**IC** - (A) 08F-210/16 A  
**LA** - SPANISH (SPA)  
**AP** - MXPA02005421 20020531 [2002MX-PA05421]  
**PR** - US45179299 19991201 [1999US-0451792]  
 WOUS0013373 20000515 [2000WO-US13373]  
**ICAA** - C08F-010/02 [2006-01 A - I R M EP]; C08F-210/16 [2006-01 A - I R M EP];  
 C08L-023/08 [2006-01 A - I R M EP]; C08L-023/16 [2006-01 A - I R M EP]  
 C08F-004/659 [2006-01 A - N R M EP]; C08F-004/6592 [2006-01 A - N R M  
 EP]  
**ICCA** - C08F-010/00 [2006 C - I R M EP]; C08F-210/00 [2006 C - I R M EP]; C08L-  
 023/00 [2006 C - I R M EP]  
 C08F-004/00 [2006 C - N R M EP]  
**UP** - 2005-07

---

 34 / 73 PLUSPAT - ©QUESTEL-ORBIT

**PN** - NO20021861 D0 20020419 [NO200201861]



**STG** - (D0) Application filed  
**OTI** - (D0) Oppstarts fremgangsm ter for multiple katalysatorsystemer  
**PA** - (D0) UNIVATION TECH LLC (US)  
**IN** - (D0) SZUL JOHN F (US); ERICKSON KERSTEN ANNE (US); MAWSON SIMON (US); DANIELL PAUL T (US); GOODE MARK G (US); MCKEE MATTHEW G (US)  
**IC** - (D0) C08F  
**PN2** - NO20021861 A 20020624 [NO200201861]  
**STG2** - (A) Unex. Applic. Open to public inspec  
**OTI2** - (A) Fremgangsm ter for oppstarting av multiple katalysatorsystemer  
**PA2** - (A) UNIVATION TECH LLC (US)  
**IN2** - (A) SZUL JOHN F (US); ERICKSON KERSTEN ANNE (US); MAWSON SIMON (US); DANIELL PAUL T (US); GOODE MARK G (US); MCKEE MATTHEW G (US)  
**IC2** - (A) C08F-002/00 C08F-010/00  
**AP** - NO20021861 20020419 [2002NO-0001861]  
**PR** - WOUS0013378 20000515 [2000WO-US13378]  
 US42538799 19991022 [1999US-0425387]  
 US45623499 19991207 [1999US-0456234]  
**ICAA** - C08F-002/34 [2006-01 A F I R M JP]; C08F-002/00 [2006-01 A L I R M JP]; C08F-004/64 [2006-01 A L I R M JP]; C08F-010/00 [2006-01 A - I R M EP]; C08F-210/16 [2006-01 A - I R M EP]; C08L-023/08 [2006-01 A - I R M EP]; C08F-004/659 [2006-01 A - N R M EP]; C08F-004/6592 [2006-01 A - N R M EP]  
**ICCA** - C08F-002/34 [2006 C F I R M JP]; C08F-002/00 [2006 C L I R M JP]; C08F-004/00 [2006 C L I R M JP]; C08F-010/00 [2006 C - I R M EP]; C08F-210/00 [2006 C - I R M EP]; C08L-023/00 [2006 C - I R M EP]  
**EC** - C08F-210/16 C08F-004:659B  
 C08F-010/00 C08F-002:00  
**ICO** - M08F-210/16 M08F-210:14 &MFI &MWDBI &LMW &HMW  
 M08F-004/659  
 M08F-004/659K  
 M08F-004/6592  
 M08L-023/08A1  
**UP** - 2002-24

---

35 / 73 PLUSPAT - ©QUESTEL-ORBIT

**PN** - NO20021862 D0 20020419 [NO200201862]  
**STG** - (D0) Application filed  
**OTI** - (D0) Katalysatorsammensetninger, fremgangsm ter for polymerisasjon og polymerer derfra  
**PA** - (D0) UNIVATION TECH LLC (US)  
**IN** - (D0) ERICKSON KERSTEN ANNE (US); KAROL FREDERICK J (US); SCHRECK DAVID JAMES (US); SZUL JOHN F (US); DANIELL PAUL T (US); GOODE MARK G (US); KWACK TAE HOON (US); MAWSON

SIMON (US); MCKEE MATTHEW G (US); HOLTCAMP MATTHEW W (US); LOVEDAY DONALD R (US); MCCONVILLE DAVID H (US); WILLIAMS CLARK C (US)

**IC** - (D0) C08F

**PN2** - NO20021862 A 20020624 [NO200201862]

**STG2** - (A) Unex. Applic. Open to public inspec

**OTI2** - (A) Katalysatorsammensetninger, fremgangsm ter til polymerisering og polymerer fra dette

**PA2** - (A) UNIVATION TECH LLC (US)

**IN2** - (A) ERICKSON KERSTEN ANNE (US); KAROL FREDERICK J (US); SCHRECK DAVID JAMES (US); SZUL JOHN F (US); DANIELL PAUL T (US); GOODE MARK G (US); KWACK TAE HOON (US); MAWSON SIMON (US); MCKEE MATTHEW G (US); HOLTCAMP MATTHEW W (US); LOVEDAY DONALD R (US); MCCONVILLE DAVID H (US); WILLIAMS CLARK C (US)

**IC2** - (A) C08F-004/64 C08F-010/00

**AP** - NO20021862 20020419 [2002NO-0001862]

**PR** - US42538799 19991022 [1999US-0425387]  
US43540999 19991108 [1999US-0435409]  
US44355199 19991118 [1999US-0443551]  
US44281399 19991118 [1999US-0442813]  
US45179299 19991201 [1999US-0451792]  
US46017999 19991210 [1999US-0460179]  
WOUS0013313 20000515 [2000WO-US13313]

**ICAA** - C08F-010/00 [2006-01 A - I R M EP]; C08F-010/02 [2006-01 A - I R M EP]; C08F-210/16 [2006-01 A - I R M EP]; C08L-023/08 [2006-01 A - I R M EP]; C08L-023/16 [2006-01 A - I R M EP]  
C08F-004/659 [2006-01 A - N R M EP]; C08F-004/6592 [2006-01 A - N R M EP]

**ICCA** - C08F-010/00 [2006 C - I R M EP]; C08F-210/00 [2006 C - I R M EP]; C08L-023/00 [2006 C - I R M EP]  
C08F-004/00 [2006 C - N R M EP]

**UP** - 2002-24

---

36 / 73 PLUSPAT - ©QUESTEL-ORBIT

**PN** - NO20022602 D0 20020531 [NO200202602]

**STG** - (D0) Application filed

**OTI** - (D0) Lösningssinnmatning av multiple katalysatorer

**PA** - (D0) UNIVATION TECH LLC (US)

**IN** - (D0) ERICKSON KERSTEN ANNE (US); SCHRECK DAVID JAMES (US); SZUL JOHN F (US); DANIELL PAUL T (US); GOODE MARK G (US); MAWSON SIMON (US); MCKEE MATTHEW G (US); WILLIAMS CLARK C (US)

**IC** - (D0) C08F

**PN2** - NO20022602 A 20020711 [NO200202602]

**STG2** - (A) Unex. Applic. Open to public inspec  
**OTI2** - (A) Lösningssinnmatning av multiple katalysatorer  
**PA2** - (A) UNIVATION TECH LLC (US)  
**IN2** - (A) ERICKSON KERSTEN ANNE (US); SCHRECK DAVID JAMES (US); SZUL JOHN F (US); DANIELL PAUL T (US); GOODE MARK G (US); MAWSON SIMON (US); MCKEE MATTHEW G (US); WILLIAMS CLARK C (US)  
**IC2** - (A) C08F-002/00 C08F-002/34  
**AP** - NO20022602 20020531 [2002NO-0002602]  
**PR** - US45179299 19991201 [1999US-0451792]  
 WOUS0013373 20000515 [2000WO-US13373]  
**ICAA** - C08F-010/02 [2006-01 A - I R M EP]; C08F-210/16 [2006-01 A - I R M EP]; C08L-023/08 [2006-01 A - I R M EP]; C08L-023/16 [2006-01 A - I R M EP] C08F-004/659 [2006-01 A - N R M EP]; C08F-004/6592 [2006-01 A - N R M EP]  
**ICCA** - C08F-010/00 [2006 C - I R M EP]; C08F-210/00 [2006 C - I R M EP]; C08L-023/00 [2006 C - I R M EP] C08F-004/00 [2006 C - N R M EP]  
**UP** - 2002-28

---

*1 / 1 LEGALI - ©EPO*

**PN** - NO20022602 D0 20020531 [NO200202602]NO20022602 A 20020711 [NO200202602]  
**AP** - NO20022602 20020531 [2002NO-0002602]  
**ACTE** - 20061227 NO/FC2A-A [-]  
 PRINTED REJECTED AND LAID OPEN PATENT APPLICATION  
**UP** - 2007-04

---

*37 / 73 PLUSPAT - ©QUESTEL-ORBIT*

**PN** - PL355103 A1 20040405 [PL-355103]  
**STG** - (A1) Application  
**TI** - (A1) CATALYST COMPOSITIONS, METHODS OF POLYMERIZATION, AND POLYMERS THEREFROM  
**PA** - (A1) UNIVATION TECHNOLOGIES (US)  
**IN** - (A1) ERICKSON KERSTEN ANNE (US); KAROL FREDERICK J (US); SCHRECK DAVID JAMES (US); SZUL JOHN F (US); DANIELL PAUL T (US); GOODE MARK G (US); KWACK TAE HOON (US); MAWSON SIMON (US); MCKEE MATTHEW G (US); HOLTCAMP MATTHEW W (US); LOVEDAY DONALD R (US); MCCONVILLE DAVID H (US); WILLIAMS CLARK C (US)  
**IC** - (A1) C08F-010/00  
**AP** - PL35510300 20000515 [2000PL-0355103]  
**PR** - WOUS0013313 20000515 [2000WO-US13313]  
 US42538799 19991022 [1999US-0425387]

US43540999 19991108 [1999US-0435409]  
 US44355199 19991118 [1999US-0443551]  
 US44281399 19991118 [1999US-0442813]  
 US45179299 19991201 [1999US-0451792]  
 US46017999 19991210 [1999US-0460179]  
**ICAA** - C08F-010/00 [2006-01 A - I R M EP]; C08F-010/02 [2006-01 A - I R M EP];  
 C08F-210/16 [2006-01 A - I R M EP]; C08L-023/08 [2006-01 A - I R M EP];  
 C08L-023/16 [2006-01 A - I R M EP]  
 C08F-004/659 [2006-01 A - N R M EP]; C08F-004/6592 [2006-01 A - N R M  
 EP]  
**ICCA** - C08F-010/00 [2006 C - I R M EP]; C08F-210/00 [2006 C - I R M EP]; C08L-  
 023/00 [2006 C - I R M EP]  
 C08F-004/00 [2006 C - N R M EP]  
**UP** - 2004-27

---

38 / 73 PLUSPAT - ©QUESTEL-ORBIT

**PN** - PL355611 A1 20040504 [PL-355611]  
**STG** - (A1) Application  
**TI** - (A1) SOLUTION FEED OF MULTIPLE CATALYSTS  
**PA** - (A1) UNIVATION TECHNOLOGIES (US)  
**IN** - (A1) ERICKSON KERSTEN ANNE (US); SCHRECK DAVID JAMES (US);  
 SZUL JOHN F (US); DANIELL PAUL T (US); GOODE MARK G (US);  
 MAWSON SIMON (US); MCKEE MATTHEW G (US); WILLIAMS CLARK  
 C (US)  
**IC** - (A1) C08F-210/16  
**AP** - PL35561100 20000515 [2000PL-0355611]  
**PR** - WOUS0013373 20000515 [2000WO-US13373]  
 US45179299 19991201 [1999US-0451792]  
**ICAA** - C08F-010/02 [2006-01 A - I R M EP]; C08F-210/16 [2006-01 A - I R M EP];  
 C08L-023/08 [2006-01 A - I R M EP]; C08L-023/16 [2006-01 A - I R M EP]  
 C08F-004/659 [2006-01 A - N R M EP]; C08F-004/6592 [2006-01 A - N R M  
 EP]  
**ICCA** - C08F-010/00 [2006 C - I R M EP]; C08F-210/00 [2006 C - I R M EP]; C08L-  
 023/00 [2006 C - I R M EP]  
 C08F-004/00 [2006 C - N R M EP]  
**UP** - 2004-28

---

39 / 73 PLUSPAT - ©QUESTEL-ORBIT

**PN** - PL356716 A1 20040628 [PL-356716]  
**STG** - (A1) Application  
**TI** - (A1) START UP METHODS FOR MULTIPLE CATALYST SYSTEMS  
**PA** - (A1) UNIVATION TECHNOLOGIES (US)  
**IN** - (A1) SZUL JOHN F (US); ERICKSON KERSTEN ANNE (US); MAWSON  
 SIMON (US); DANIELL PAUL T (US); GOODE MARK G (US); MCKEE  
 MATTHEW G (US)

**IC** - (A1) C08F-010/00  
**AP** - PL35671600 20000515 [2000PL-0356716]  
**PR** - WOUS0013378 20000515 [2000WO-US13378]  
 US42538799 19991022 [1999US-0425387]  
 US45623499 19991207 [1999US-0456234]  
**ICAA** - C08F-002/34 [2006-01 A F I R M JP]; C08F-002/00 [2006-01 A L I R M JP];  
 C08F-004/64 [2006-01 A L I R M JP]; C08F-010/00 [2006-01 A - I R M EP];  
 C08F-210/16 [2006-01 A - I R M EP]; C08L-023/08 [2006-01 A - I R M EP]  
 C08F-004/659 [2006-01 A - N R M EP]; C08F-004/6592 [2006-01 A - N R M  
 EP]  
**ICCA** - C08F-002/34 [2006 C F I R M JP]; C08F-002/00 [2006 C L I R M JP]; C08F-  
 004/00 [2006 C L I R M JP]; C08F-010/00 [2006 C - I R M EP]; C08F-210/00  
 [2006 C - I R M EP]; C08L-023/00 [2006 C - I R M EP]  
**EC** - C08F-210/16 C08F-004:659B  
 C08F-010/00 C08F-002:00  
**ICO** - M08F-210/16 M08F-210:14 &MFI &MWDBI &LMW &Hmw  
 M08F-004/659  
 M08F-004/659K  
 M08F-004/6592  
 M08L-023/08A1  
**UP** - 2004-32

---

40 / 73 PLUSPAT - ©QUESTEL-ORBIT

**PN** - RU2233292 C2 20040727 [RU2233292]  
**STG** - (C2) Patent for invention (2nd publ.)  
**TI** - (C2) METHOD OF INTRODUCING SEVERAL CATALYSTS INTO  
 SOLUTION  
**IN** - (C2) CHUL DZHON F (US); EHRIKSON KERSTEN ANNE (US); MOSON  
 SAJMON (US); SREKK DEJVID DZHEJMS (US); GUD MARK G (US); DAN  
 ELL POL T (US); MAKKI MATT JU G (US); UILL JAMS KLARK S (US)  
**IC** - (C2) C08F-010/00 C08F-010/02  
**LA** - RUSSIAN (RUS)  
**AP** - RU2002117426 20000515 [2002RU-0117426]  
**PR** - US45179299 19991201 [1999US-0451792]  
**ICAA** - C08F-002/34 [2006-01 A F I R M JP]; C08F-002/00 [2006-01 A L I R M JP];  
 C08F-002/01 [2006-01 A L I R M JP]; C08F-004/42 [2006-01 A - I R M US];  
 C08F-004/60 [2006-01 A L I R M JP]; C08F-004/6192 [2006-01 A L I R M JP];  
 C08F-010/00 [2006-01 A L I R M JP]; C08F-010/02 [2006-01 A - I R M EP];  
 C08F-210/16 [2006-01 A - I R M EP]; C08L-023/08 [2006-01 A - I R M EP];  
 C08L-023/16 [2006-01 A - I R M EP]  
 C08F-004/659 [2006-01 A - N R M EP]; C08F-004/6592 [2006-01 A - N R M  
 EP]  
**ICCA** - C08F-002/34 [2006 C F I R M JP]; C08F-002/00 [2006 C L I R M JP]; C08F-  
 002/01 [2006 C L I R M JP]; C08F-004/00 [2006 C - I R M US]; C08F-010/00  
 [2006 C - I R M EP]; C08F-210/00 [2006 C - I R M EP]; C08L-023/00 [2006 C -  
 I R M EP]

**EC** - C08F-010/02 C08F-004:02D  
 C08F-010/02 C08F-004:64  
 C08F-010/02 C08F-004:659  
 C08F-010/02 C08F-004:659B  
 C08F-210/16  
 C08L-023/08A1 &B2  
 C08L-023/16 &B2  
**ICO** - M08F-004/659K  
 M08F-004/659L  
 M08F-004/6592  
 M08F-210/16 M08F-210:14 &MFI &MWDB &LMW &HMW &FILM  
 M08L-023/08A1  
 M08L-205/02  
 M08L-314/06  
**DT** - Corresponding document  
**UP** - 2004-47

---

41 / 73 PLUSPAT - ©QUESTEL-ORBIT

**PN** - RU2233845 C2 20040810 [RU2233845]  
**STG** - (C2) Patent for invention (2nd publ.)  
**TI** - (C2) METHOD FOR POLYMERIZATION OF OLEFIN USING CATALYTIC COMPOSITION  
**IN** - (C2) MAKKONVILL DEJVID KH (US); LAVDEJ DONALD R (US); KHOLTKAMP MATT JU U (US); CHUL DZHON F (US); EHRIKSON KERSTEN ANNE (US); MOSON SAJMON (US); KVAK TAE KHUN (US); KAROL FREDERIK DZH (US); SREKK DEJVID DZHEJMS (US); GUD MARK G (US); DAN ELL POL T (US); MAKKI MATT JU G (US); UILL JAMS KLARK S (US)  
**IC** - (C2) C07F-007/28 C07F-009/00 C07F-017/00 C07F-019/00 C08F-002/18 C08F-002/34 C08F-004/642 C08F-010/00 C08F-010/02  
**LA** - RUSSIAN (RUS)  
**AP** - RU2002113167 20000515 [2002RU-0113167]  
**PR** - US46017999 19991210 [1999US-0460179]  
**ICAA** - C08F-004/44 [2006-01 A - I R M US]; C08F-004/64 [2006-01 A - I R M US]; C08F-004/642 [2006-01 A - I R M US]; C08F-010/02 [2006-01 A - I R M EP]; C08F-210/16 [2006-01 A - I R M EP]; C08L-023/08 [2006-01 A - I R M EP]; C08L-023/16 [2006-01 A - I R M EP]  
 C08F-004/659 [2006-01 A - N R M EP]; C08F-004/6592 [2006-01 A - N R M EP]  
**ICCA** - C08F-004/00 [2006 C - I R M US]; C08F-010/00 [2006 C - I R M EP]; C08F-210/00 [2006 C - I R M EP]; C08L-023/00 [2006 C - I R M EP]  
**EC** - C08F-010/02 C08F-004:02D  
 C08F-010/02 C08F-004:64  
 C08F-010/02 C08F-004:659  
 C08F-010/02 C08F-004:659B  
 C08F-210/16  
 C08L-023/08A1 &B2

C08L-023/16 &B2

**ICO** - M08F-004/659K  
M08F-004/659L  
M08F-004/6592  
M08F-210/16 M08F-210:14 &MFI &MWDB &LMW &HMM &FILM  
M08L-023/08A1  
M08L-205/02  
M08L-314/06

**DT** - Corresponding document

**UP** - 2004-47

42 / 73 PLUSPAT - ©QUESTEL-ORBIT

**PN** - RU2249601 C2 20050410 [RU2249601]

**STG** - (C2) Patent for invention (2nd publ.)

**TI** - (C2) METHOD FOR CATALYST ACTIVATION IN SYSTEMS USING SEVERAL CATALYSTS

**IN** - (C2) CHUL DZHON F (US); EHRIKSON ANNE KERSTEN (US); MOSON SAJMON (US); DAN EL POL T (US); GUD MARK G (US); MAKKI MATT JU G (US)

**IC** - (C2) C08F-010/00 C08F-010/02

**LA** - RUSSIAN (RUS)

**AP** - RU2002112755 20000515 [2002RU-0112755]

**PR** - US45623499 19991207 [1999US-0456234]

**ICAA** - C08F-004/44 [2006-01 A - I R M US]; C08F-010/00 [2006-01 A - I R M EP]; C08F-210/16 [2006-01 A - I R M EP]  
C08F-004/659 [2006-01 A - N R M EP]; C08F-004/6592 [2006-01 A - N R M EP]

**ICCA** - C08F-004/00 [2006 C - I R M US]; C08F-010/00 [2006 C - I R M EP]; C08F-210/00 [2006 C - I R M EP]

**EC** - C08F-010/00 C08F-002:00  
C08F-210/16 C08F-004:659B

**ICO** - M08F-004/659  
M08F-004/659K  
M08F-004/6592  
M08F-210/16 M08F-210:14 &MFI &MWDBI &LMW &HMM

**DT** - Corresponding document

**UP** - 2006-04

43 / 73 PLUSPAT - ©QUESTEL-ORBIT

**PN** - SK5492002 A3 20021203 [SK200200549]

**STG** - (A3) Application published

**TI** - (A3) START UP METHODS FOR MULTIPLE CATALYST SYSTEMS

**PA** - (A3) UNIVATION TECH LLC (US)

**IN** - (A3) SZUL JOHN F (US); ERICKSON KERSTEN ANNE (US); MAWSON

SIMON (US); DANIELL PAUL T (US); GOODE MARK G (US); MCKEE MATTHEW G (US)

**IC** - (A3) C08F-010/00 C08F-010/02

**AP** - SK5492002 20000515 [2002SK-0000549]

**PR** - WOUS0013378 20000515 [2000WO-US13378]  
US42538799 19991022 [1999US-0425387]  
US45623499 19991207 [1999US-0456234]

**ICAA** - C08F-002/34 [2006-01 A F I R M JP]; C08F-002/00 [2006-01 A L I R M JP];  
C08F-004/64 [2006-01 A L I R M JP]; C08F-010/00 [2006-01 A - I R M EP];  
C08F-210/16 [2006-01 A - I R M EP]; C08L-023/08 [2006-01 A - I R M EP]  
C08F-004/659 [2006-01 A - N R M EP]; C08F-004/6592 [2006-01 A - N R M EP]

**ICCA** - C08F-002/34 [2006 C F I R M JP]; C08F-002/00 [2006 C L I R M JP]; C08F-004/00 [2006 C L I R M JP]; C08F-010/00 [2006 C - I R M EP]; C08F-210/00 [2006 C - I R M EP]; C08L-023/00 [2006 C - I R M EP]

**EC** - C08F-210/16 C08F-004:659B  
C08F-010/00 C08F-002:00

**ICO** - M08F-210/16 M08F-210:14 &MFI &MWDBI &LMW &HMW  
M08F-004/659  
M08F-004/659K  
M08F-004/6592  
M08L-023/08A1

**UP** - 2003-27

---

44 / 73 PLUSPAT - ©QUESTEL-ORBIT

**PN** - SK5502002 A3 20021203 [SK200200550]

**STG** - (A3) Application published

**TI** - (A3) CATALYST COMPOSITIONS, METHODS OF POLYMERIZATION, AND POLYMERS THEREFROM

**PA** - (A3) UNIVATION TECH LLC (US)

**IN** - (A3) ERICKSON KERSTEN ANNE (US); KAROL FREDERICK J (US); SCHRECK DAVID JAMES (US); SZUL JOHN F (US); DANIELL PAUL T (US); GOODE MARK G (US); KWACK TAE HOON (US); MAWSON SIMON (US); MCKEE MATTHEW G (US); HOLTCAMP MATTHEW W (US); LOVEDAY DONALD R (US); MCCONVILLE DAVID H (US); WILLIAMS CLARK C (US)

**IC** - (A3) C08F-004/64 C08F-010/00 C08F-010/02

**AP** - SK5502002 20000515 [2002SK-0000550]

**PR** - US42538799 19991022 [1999US-0425387]  
US43540999 19991108 [1999US-0435409]  
US44355199 19991118 [1999US-0443551]  
US44281399 19991118 [1999US-0442813]  
US45179299 19991201 [1999US-0451792]  
US46017999 19991210 [1999US-0460179]  
WOUS0013313 20000515 [2000WO-US13313]

**ICAA** - C08F-010/00 [2006-01 A - I R M EP]; C08F-010/02 [2006-01 A - I R M EP];



C08F-210/16 [2006-01 A - I R M EP]; C08L-023/08 [2006-01 A - I R M EP];  
 C08L-023/16 [2006-01 A - I R M EP]  
 C08F-004/659 [2006-01 A - N R M EP]; C08F-004/6592 [2006-01 A - N R M  
 EP]  
**ICCA** - C08F-010/00 [2006 C - I R M EP]; C08F-210/00 [2006 C - I R M EP]; C08L-  
 023/00 [2006 C - I R M EP]  
 C08F-004/00 [2006 C - N R M EP]  
**UP** - 2003-27

45 / 73 *PLUSPAT - ©QUESTEL-ORBIT*

**PN** - SK7692002 A3 20030204 [SK200200769]  
**STG** - (A3) Application published  
**TI** - (A3) Solution feed of multiple catalysts  
**PA** - (A3) UNIVATION TECH LLC (US)  
**IN** - (A3) ERICKSON KERSTEN ANNE (US); SCHRECK DAVID JAMES (US);  
 SZUL JOHN F (US); DANIELL PAUL T (US); GOODE MARK G (US);  
 MAWSON SIMON (US); MCKEE MATTHEW G (US); WILLIAMS CLARK  
 C (US)  
**IC** - (A3) C08F-210/16  
**AP** - SK7692002 20000515 [2002SK-0000769]  
**PR** - US45179299 19991201 [1999US-0451792]  
 WOUS0013373 20000515 [2000WO-US13373]  
**ICAA** - C08F-010/02 [2006-01 A - I R M EP]; C08F-210/16 [2006-01 A - I R M EP];  
 C08L-023/08 [2006-01 A - I R M EP]; C08L-023/16 [2006-01 A - I R M EP]  
 C08F-004/659 [2006-01 A - N R M EP]; C08F-004/6592 [2006-01 A - N R M  
 EP]  
**ICCA** - C08F-010/00 [2006 C - I R M EP]; C08F-210/00 [2006 C - I R M EP]; C08L-  
 023/00 [2006 C - I R M EP]  
 C08F-004/00 [2006 C - N R M EP]  
**UP** - 2003-34

46 / 73 *PLUSPAT - ©QUESTEL-ORBIT*

**PN** - TR200201454 T2 20021121 [TR200201454]  
**STG** - (T2) Transl. of WO without search report  
**OTI** - (T2) oklu katalizörlerin çözelti içinde beslenmesi.  
**PA** - (T2) UNIVATION TECH LLC (US)  
**IN** - (T2) DANIELL PAUL THEODORE (US); SCHRECK DAVID JAMES (US);  
 SZUL JOHN F (US); MAWSON SIMON (US); GOODE MARK GREGORY  
 (US); MCKEE MATTHEW GARY (US); TERRY KERSTEN ANNE (US);  
 WILLIAMS CLARK C (US)  
**IC** - (T2) C08F-210/16  
**AP** - TR200201454T 20000515 [2002TR-0001454]  
**PR** - US45179299 19991201 [1999US-0451792]  
**ICAA** - C08F-010/02 [2006-01 A - I R M EP]; C08F-210/16 [2006-01 A - I R M EP];

C08L-023/08 [2006-01 A - I R M EP]; C08L-023/16 [2006-01 A - I R M EP]  
 C08F-004/659 [2006-01 A - N R M EP]; C08F-004/6592 [2006-01 A - N R M EP]  
**ICCA** - C08F-010/00 [2006 C - I R M EP]; C08F-210/00 [2006 C - I R M EP]; C08L-023/00 [2006 C - I R M EP]  
 C08F-004/00 [2006 C - N R M EP]  
**UP** - 2003-05

## 47 / 73 PLUSPAT - ©QUESTEL-ORBIT

**PN** - TR200201767 T2 20021121 [TR200201767]  
**STG** - (T2) Transl. of WO without search report  
**OTI** - (T2) Katalizör terkibi, polimerizasyon yöntemi ve bunlardan elde edilen polimer  
**PA** - (T2) UNIVATION TECH LLC (US)  
**IN** - (T2) KAROL FREDERICK J (US); SCHRECK DAVID JAMES (US); SZUL JOHN F (US); DANIELL PAUL T (US); GOODE MARK G (US); KWALK TAE HOON (US); MAWSON SIMON (US); MCKEE MATTHEW G (US); HOLT CAMP MATTHEW W (US); LOVEDAY DONALD R (US); MCCONVILLE DAVID H (US); TERRY KERSTEN ANNE (US); WILLIAMS CLARK C (US)  
**IC** - (T2) C08F-004/64 C08F-010/00 C08F-010/02  
**AP** - TR200201767T 20000515 [2002TR-0001767]  
**PR** - US42538799 19991022 [1999US-0425387]  
 US43540999 19991108 [1999US-0435409]  
 US44355199 19991118 [1999US-0443551]  
 US44281399 19991118 [1999US-0442813]  
 US45179299 19991201 [1999US-0451792]  
 US46017999 19991210 [1999US-0460179]  
**ICAA** - C08F-010/00 [2006-01 A - I R M EP]; C08F-010/02 [2006-01 A - I R M EP]; C08F-210/16 [2006-01 A - I R M EP]; C08L-023/08 [2006-01 A - I R M EP]; C08L-023/16 [2006-01 A - I R M EP]  
 C08F-004/659 [2006-01 A - N R M EP]; C08F-004/6592 [2006-01 A - N R M EP]  
**ICCA** - C08F-010/00 [2006 C - I R M EP]; C08F-210/00 [2006 C - I R M EP]; C08L-023/00 [2006 C - I R M EP]  
 C08F-004/00 [2006 C - N R M EP]  
**UP** - 2003-05

## 48 / 73 PLUSPAT - ©QUESTEL-ORBIT

**PN** - TW245773 B 20051221 [TW-245773]  
**STG** - (B) Patent  
**TI** - (B) Catalyst composition and use thereof in polymerizing olefin(s), and polymer therefrom  
**PA** - (B) UNIVATION TECH LLC (US)  
**IN** - (B) MCCONVILLE DAVID H (US); LOVEDAY DONALD R (US); HOLT CAMP MATTHEW W (US); SZUL JOHN F (US); ERICKSON

KERSTEN ANNE (US)

**IC** - (B) C08F-010/00 C08F-010/02  
**AP** - TW89109281 20000515 [2000TW-0109281]  
**PR** - US42538799 19991022 [1999US-0425387]  
       US43540999 19991108 [1999US-0435409]  
       US44281399 19991118 [1999US-0442813]  
       US44355199 19991118 [1999US-0443551]  
       US45179299 19991201 [1999US-0451792]  
**UP** - 2006-44

49 / 73 PLUSPAT - ©QUESTEL-ORBIT

**PN** - TW503242 B 20020921 [TW-503242]  
**STG** - (B) Patent  
**TI** - (B) Start up methods for multiple catalyst systems  
**PA** - (B) UNIVATION TECH LLC (US)  
**IN** - (B) SZUL JOHN F (US); ERICKSON KERSTEN ANNE (US); MAWSON  
       SIMON (US); DANIELL PAUL T (US); GOODE MARK G (US)  
**IC** - (B) C08F-010/00 C08F-010/02  
**AP** - TW89109282 20000515 [2000TW-0109282]  
**PR** - US42538799 19991022 [1999US-0425387]  
       US45623499 19991207 [1999US-0456234]  
**ICAA** - C08F-002/34 [2006-01 A F I R M JP]; C08F-002/00 [2006-01 A L I R M JP];  
       C08F-004/64 [2006-01 A L I R M JP]; C08F-010/00 [2006-01 A - I R M EP];  
       C08F-210/16 [2006-01 A - I R M EP]; C08L-023/08 [2006-01 A - I R M EP]  
       C08F-004/659 [2006-01 A - N R M EP]; C08F-004/6592 [2006-01 A - N R M  
       EP]  
**ICCA** - C08F-002/34 [2006 C F I R M JP]; C08F-002/00 [2006 C L I R M JP]; C08F-  
       004/00 [2006 C L I R M JP]; C08F-010/00 [2006 C - I R M EP]; C08F-210/00  
       [2006 C - I R M EP]; C08L-023/00 [2006 C - I R M EP]  
**EC** - C08F-210/16 C08F-004:659B  
       C08F-010/00 C08F-002:00  
**ICO** - M08F-210/16 M08F-210:14 &MFI &MWDBI &LMW &Hmw  
       M08F-004/659  
       M08F-004/659K  
       M08F-004/6592  
       M08L-023/08A1  
**UP** - 2003-32

1 / 1 LEGALI - ©EPO

**PN** - TW503242 B 20020921 [TW-503242]  
**AP** - TW89109282 20000515 [2000TW-0109282]  
**ACTE** - 20030225 TW/GD4A-A [+]
       ISSUE OF PATENT CERTIFICATE FOR GRANTED INVENTION PATENT  
**UP** - 2004-28

---

50 / 73 PLUSPAT - ©QUESTEL-ORBIT - image

**PN** - US2002111443 A1 20020815 [US20020111443]

**STG** - (A1) Utility Patent Application published on or after January 2, 2001

**TI** - (A1) Solution feed of multiple catalysts

**PA** - (B2) UNIVATION TECH LLC (US)

**PA0** - Univation Technologies, LLC, Houston TX [US]

**IN** - (A1) ERICKSON KERSTEN ANNE (US); SCHRECK DAVID JAMES (US); SZUL JOHN F (US); DANIELL PAUL T (US); GOODE MARK G (US); MAWSON SIMON (US); MCKEE MATTHEW G (US); WILLIAMS CLARK C (US)

**IC** - (A1) C08F-004/44

**PN2** - US6586544 B2 20030701 [US6586544]

**STG2** - (B2) U.S. Patent (with pre-grant pub.) after Jan. 2, 2001

**TI2** - (B2) Solution feed of multiple catalysts

**PA2** - (B2) UNIVATION TECH LLC (US)

**IN2** - (B2) ERICKSON KERSTEN ANNE (US); SCHRECK DAVID JAMES (US); SZUL JOHN F (US); DANIELL PAUL T (US); GOODE MARK G (US); MAWSON SIMON (US); MCKEE MATTHEW G (US); WILLIAMS CLARK C (US)

**IC2** - (B2) C08F-004/42

**AP** - US12277802 20020415 [2002US-0122778]

**PR** - US12277802 20020415 [2002US-0122778]  
US45179299 19991201 [1999US-0451792]

**ICAA** - C08F-010/02 [2006-01 A - I R M EP]; C08F-210/16 [2006-01 A - I R M EP]; C08L-023/08 [2006-01 A - I R M EP]; C08L-023/16 [2006-01 A - I R M EP] C08F-004/659 [2006-01 A - N R M EP]; C08F-004/6592 [2006-01 A - N R M EP]

**ICCA** - C08F-010/00 [2006 C - I R M EP]; C08F-210/00 [2006 C - I R M EP]; C08L-023/00 [2006 C - I R M EP]  
C08F-004/00 [2006 C - N R M EP]

**EC** - C08F-010/02 C08F-004:02D  
C08F-010/02 C08F-004:64  
C08F-010/02 C08F-004:659  
C08F-010/02 C08F-004:659B  
C08F-210/16  
C08L-023/08A1 &B2  
C08L-023/16 &B2

**ICO** - M08F-210/16 M08F-210:14 &MFI &MWDB &LMW &HWM &FILM  
M08F-004/659K  
M08F-004/659L  
M08F-004/6592  
M08L-023/08A1  
M08L-205/02

**PCL** - ORIGINAL (O) : 526160000; CROSS-REFERENCE (X) : 502152000  
526113000 526114000 526118000 526161000 526348000 526943000

**DT** - Corresponding document  
**UP** - 2002-34

---

51 / 73 *PLUSPAT - ©QUESTEL-ORBIT*

**PN** - US2002198351 A1 20021226 [US20020198351]  
**STG** - (A1) Utility Patent Application published on or after January 2, 2001  
**TI** - (A1) Method of polymerization and polymer produced therefrom  
**PA** - (B2) UNIVATION TECH LLC (US)  
**PA0** - Univation Technologies, LLC, Houston TX [US]  
**IN** - (A1) SZUL JOHN F (US); LOVEDAY DONALD R (US); MCCONVILLE DAVID H (US)  
**IC** - (A1) C08F-110/02  
**PN2** - US6696537 B2 20040224 [US6696537]  
**STG2** - (B2) U.S. Patent (with pre-grant pub.) after Jan. 2, 2001  
**TI2** - (B2) Method of polymerization and polymer produced therefrom  
**PA2** - (B2) UNIVATION TECH LLC (US)  
**IN2** - (B2) SZUL JOHN F (US); LOVEDAY DONALD R (US); MCCONVILLE DAVID H (US)  
**IC2** - (B2) C08F-004/44 C08F-010/02 C08F-210/04  
**AP** - US14721602 20020516 [2002US-0147216]  
**PR** - US14721602 20020516 [2002US-0147216]  
 US44281399 19991118 [1999US-0442813]  
**ICAA** - C08F-010/02 [2006-01 A - I R M EP]; C08F-210/16 [2006-01 A - I R M EP];  
 C08L-023/08 [2006-01 A - I R M EP]; C08L-023/16 [2006-01 A - I R M EP]  
 C08F-004/659 [2006-01 A - N R M EP]; C08F-004/6592 [2006-01 A - N R M EP]  
**ICCA** - C08F-010/00 [2006 C - I R M EP]; C08F-210/00 [2006 C - I R M EP]; C08L-  
 023/00 [2006 C - I R M EP]  
 C08F-004/00 [2006 C - N R M EP]  
**EC** - C08F-010/02 C08F-004:02D  
 C08F-010/02 C08F-004:64  
 C08F-010/02 C08F-004:659  
 C08F-010/02 C08F-004:659B  
 C08F-210/16  
 C08L-023/08A1 &B2  
 C08L-023/16 &B2  
**ICO** - M08F-210/16 M08F-210:14 &MFI &MWDB &LMW &HWM &FILM  
 M08F-004/659K  
 M08F-004/659L  
 M08F-004/6592  
 M08L-023/08A1  
 M08L-205/02  
**PCL** - ORIGINAL (O) : 526352000; CROSS-REFERENCE (X) : 502152000  
 526161000 526348600  
**DT** - Corresponding document

UP - 2003-02

---

52 / 73 PLUSPAT - ©QUESTEL-ORBIT

**PN** - US2002123580 A1 20020905 [US20020123580]  
**STG** - (A1) Utility Patent Application published on or after January 2, 2001  
**TI** - (A1) Transition metal catalyst compounds having deuterium substituted ligand and catalyst systems thereof  
**PA** - (B2) UNIVATION TECH LLC (US)  
**PA0** - Univation Technologies, LLC, Houston TX [US]  
**IN** - (A1) PETERSON THOMAS HENRY (US); WENZEL TIMOTHY T (US)  
**IC** - (A1) C08F-004/44  
**PN2** - US6624107 B2 20030923 [US6624107]  
**STG2** - (B2) U.S. Patent (with pre-grant pub.) after Jan. 2, 2001  
**TI2** - (B2) Transition metal catalyst compounds having deuterium substituted ligand and catalyst systems thereof  
**PA2** - (B2) UNIVATION TECH LLC (US)  
**IN2** - (B2) PETERSON THOMAS HENRY (US); WENZEL TIMOTHY T (US)  
**IC2** - (B2) B01J-031/00  
**AP** - US3399401 20011220 [2001US-0033994]  
**PR** - US3399401 20011220 [2001US-0033994]  
       US86457101 20010524 [2001US-0864571]  
       US42538799 19991022 [1999US-0425387]  
**ICAA** - C08F-010/00 [2006-01 A - I R M EP]; C08F-010/02 [2006-01 A - I R M EP];  
       C08F-210/16 [2006-01 A - I R M EP]; C08L-023/08 [2006-01 A - I R M EP];  
       C08L-023/16 [2006-01 A - I R M EP]  
       C08F-004/659 [2006-01 A - N R M EP]; C08F-004/6592 [2006-01 A - N R M EP]  
**ICCA** - C08F-010/00 [2006 C - I R M EP]; C08F-210/00 [2006 C - I R M EP]; C08L-  
       023/00 [2006 C - I R M EP]  
       C08F-004/00 [2006 C - N R M EP]  
**EC** - C08F-010/00 C08F-002:00  
       C08F-010/02 C08F-004:02D  
       C08F-010/02 C08F-004:64  
       C08F-010/02 C08F-004:659  
       C08F-010/02 C08F-004:659B  
       C08F-210/16  
       C08L-023/08A1 &B2  
       C08L-023/16 &B2  
**ICO** - M08F-210/16 M08F-210:14 &MFI &MWDB &LMW &HMW &FILM  
       M08F-210/16 M08F-210:14 &MFI &MWDBI &LMW &HMW  
       M08F-004/659  
       M08F-004/659K  
       M08F-004/659L  
       M08F-004/6592  
       M08L-023/08A1

M08L-205/02

**PCL** - ORIGINAL (O) : 502150000; CROSS-REFERENCE (X) : 502162000  
502167000 526127000 526128000 526129000 526141000 526142000

**DT** - Corresponding document

**UP** - 2002-38

1 / 1 LEGALI - ©EPO

**PN** - US2002123580 A1 20020905 [US20020123580]US6624107 B2 20030923  
[US6624107]

**AP** - US3399401 20011220 [2001US-0033994]

**ACTE** - 20020307 US/AS-A  
ASSIGNMENT  
OWNER: UNIVATION TECHNOLOGIES LLC SUITE 1950 5555 SAN FEL;  
EFFECTIVE DATE: 20020219  
ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNORS:WENZEL,  
TIMOTHY T. /AR;REEL/FRAME:012701/0589

20050104 US/CC-A  
CERTIFICATE OF CORRECTION

20070206 US/CC-A  
CERTIFICATE OF CORRECTION

**UP** - 2007-09

53 / 73 PLUSPAT - ©QUESTEL-ORBIT

**PN** - US6274684 B1 20010814 [US6274684]

**STG** - (B1) U.S. Patent (no pre-grant pub.) after Jan. 2, 2001

**TI** - (B1) Catalyst composition, method of polymerization, and polymer therefrom

**PA** - (B1) UNIVATION TECH LLC (US)

**PA0** - Univation Technologies, LLC, Houston TX [US]

**IN** - (B1) ERICKSON KERSTEN ANNE (US); KAROL FREDERICK J (US);  
SCHRECK DAVID JAMES (US); SZUL JOHN F (US); KWACK TAE HOON  
(US); MAWSON SIMON (US); LOVEDAY DONALD R (US);  
MCCONVILLE DAVID H (US)

**IC** - (B1) C08F-004/44

**AP** - US42538799 19991022 [1999US-0425387]

**PR** - US42538799 19991022 [1999US-0425387]

**ICAA** - C08F-010/00 [2006-01 A - I R M EP]; C08F-010/02 [2006-01 A - I R M EP];  
C08F-210/16 [2006-01 A - I R M EP]; C08L-023/08 [2006-01 A - I R M EP];  
C08L-023/16 [2006-01 A - I R M EP]  
C08F-004/659 [2006-01 A - N R M EP]; C08F-004/6592 [2006-01 A - N R M  
EP]

**ICCA** - C08F-010/00 [2006 C - I R M EP]; C08F-210/00 [2006 C - I R M EP]; C08L-  
023/00 [2006 C - I R M EP]  
C08F-004/00 [2006 C - N R M EP]

**EC** - C08F-010/00 C08F-002:00  
C08F-010/02 C08F-004:02D  
C08F-010/02 C08F-004:64  
C08F-010/02 C08F-004:659  
C08F-010/02 C08F-004:659B  
C08F-210/16  
C08L-023/08A1 &B2  
C08L-023/16 &B2

**ICO** - M08F-210/16 M08F-210:14 &MFI &MWDB &LMW &HWM &FILM  
M08F-210/16 M08F-210:14 &MFI &MWDBI &LMW &HWM  
M08F-004/659  
M08F-004/659K  
M08F-004/6592  
M08L-023/08A1  
M08L-205/02  
M08L-314/06

**PCL** - ORIGINAL (O) : 526114000; CROSS-REFERENCE (X) : 526160000  
526172000 526348200

**DT** - Corresponding document

**UP** - 2001-34

---

1 / 1 LEGALI - ©EPO

**PN** - US6274684 B1 20010814 [US6274684]

**AP** - US42538799 19991022 [1999US-0425387]

**ACTE** - 20000110 US/AS-A  
ASSIGNMENT  
OWNER: UNIVATION TECHNOLOGIES, LLC 5555 SAN FELIPE, SUITE  
ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNORS:LOVEDAY,  
DONALD R.;MC CONVILLE, DAVID H.;SZUL, JOHN F.;AND  
OTHERS;REEL/FRAME:010491/0078;SIGNING DATES FROM 19991108 TO  
19991110

20040629 US/RF-A  
REISSUE APPLICATION FILED  
EFFECTIVE DATE: 20040120

**UP** - 2004-27

---

54 / 73 PLUSPAT - ©QUESTEL-ORBIT

**PN** - US6300439 B1 20011009 [US6300439]

**STG** - (B1) U.S. Patent (no pre-grant pub.) after Jan. 2, 2001

**TI** - (B1) Group 15 containing transition metal catalyst compounds, catalyst systems  
and their use in a polymerization process

**PA** - (B1) UNIVATION TECH LLC (US)

**PA0** - Univation Technologies, LLC, Houston TX [US]

**IN** - (B1) MC CONVILLE DAVID H (US)

**IC** - (B1) C08F-004/44



**AP** - US43540999 19991108 [1999US-0435409]  
**PR** - US43540999 19991108 [1999US-0435409]  
**ICAA** - C08F-010/02 [2006-01 A - I R M EP]; C08F-210/16 [2006-01 A - I R M EP];  
 C08L-023/08 [2006-01 A - I R M EP]; C08L-023/16 [2006-01 A - I R M EP]  
 C08F-004/659 [2006-01 A - N R M EP]; C08F-004/6592 [2006-01 A - N R M  
 EP]  
**ICCA** - C08F-010/00 [2006 C - I R M EP]; C08F-210/00 [2006 C - I R M EP]; C08L-  
 023/00 [2006 C - I R M EP]  
 C08F-004/00 [2006 C - N R M EP]  
**EC** - C08F-010/02 C08F-004:02D  
 C08F-010/02 C08F-004:64  
 C08F-010/02 C08F-004:659  
 C08F-010/02 C08F-004:659B  
 C08F-210/16  
 C08L-023/08A1 &B2  
 C08L-023/16 &B2  
**ICO** - M08F-210/16 M08F-210:14 &MFI &MWDB &LMW &HMM &FILM  
 M08F-004/659K  
 M08F-004/6592  
 M08L-023/08A1  
 M08L-205/02  
 M08L-314/06  
**PCL** - ORIGINAL (O) : 526161000; CROSS-REFERENCE (X) : 526127000  
 526129000 526159000 526172000 526351000 526352000 526901000  
 526941000 526943000  
**DT** - Corresponding document  
**UP** - 2001-42

---

*1 / 1 LEGALI - ©EPO*

**PN** - US6300439 B1 20011009 [US6300439]  
**AP** - US43540999 19991108 [1999US-0435409]  
**ACTE** - 20000119 US/AS-A  
 ASSIGNMENT  
 OWNER: UNIVATION TECHNOLOGIES, LLC SUITE 1950 5555 SAN FE;  
 EFFECTIVE DATE: 20000103  
 ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:MCCONVILLE,  
 DAVID H.;REEL/FRAME:010537/0209  
  
 20040525 US/RF-A  
 REISSUE APPLICATION FILED  
 EFFECTIVE DATE: 20040212  
**UP** - 2004-26

---

*55 / 73 PLUSPAT - ©QUESTEL-ORBIT*

**PN** - US6417304 B1 20020709 [US6417304]  
**STG** - (B1) U.S. Patent (no pre-grant pub.) after Jan. 2, 2001

**TI** - (B1) Method of polymerization and polymer produced therefrom  
**PA** - (B1) UNIVATION TECH LLC (US)  
**PA0** - Univation Technologies, LLC, Houston TX [US]  
**IN** - (B1) SZUL JOHN F (US); LOVEDAY DONALD R (US); MCCONVILLE DAVID H (US)  
**IC** - (B1) C08F-004/44 C08F-004/64  
**AP** - US44281399 19991118 [1999US-0442813]  
**PR** - US44281399 19991118 [1999US-0442813]  
**ICAA** - C08F-010/02 [2006-01 A - I R M EP]; C08F-210/16 [2006-01 A - I R M EP]; C08L-023/08 [2006-01 A - I R M EP]; C08L-023/16 [2006-01 A - I R M EP] C08F-004/659 [2006-01 A - N R M EP]; C08F-004/6592 [2006-01 A - N R M EP]  
**ICCA** - C08F-010/00 [2006 C - I R M EP]; C08F-210/00 [2006 C - I R M EP]; C08L-023/00 [2006 C - I R M EP] C08F-004/00 [2006 C - N R M EP]  
**EC** - C08F-010/02 C08F-004:02D  
C08F-010/02 C08F-004:64  
C08F-010/02 C08F-004:659  
C08F-010/02 C08F-004:659B  
C08F-210/16  
C08L-023/08A1 &B2  
C08L-023/16 &B2  
**ICO** - M08F-210/16 M08F-210:14 &MFI &MWDB &LMW &HMM &FILM  
M08F-004/659K  
M08F-004/6592  
M08L-023/08A1  
M08L-205/02  
M08L-314/06  
**PCL** - ORIGINAL (O) : 526161000; CROSS-REFERENCE (X) : 502155000  
526172000 526348500 526348600 526352000 526901000  
**DT** - Corresponding document  
**UP** - 2002-29

---

1 / 1 LEGALI - ©EPO

**PN** - US6417304 B1 20020709 [US6417304]  
**AP** - US44281399 19991118 [1999US-0442813]  
**ACTE** - 20000814 US/AS-A  
ASSIGNMENT  
OWNER: UNIVATION TECHNOLOGIES, LLC 5555 SAN FELIPE, SUITE;  
EFFECTIVE DATE: 20000103  
ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNORS:MCCONVILLE,  
DAVID H.;LOVEDAY, DONALD R.;REEL/FRAME:011013/0614  
**UP** - 2004-30

---

56 / 73 PLUSPAT - ©QUESTEL-ORBIT

**PN** - US6265505 B1 20010724 [US6265505]  
**STG** - (B1) U.S. Patent (no pre-grant pub.) after Jan. 2, 2001  
**TI** - (B1) Catalyst system and its use in a polymerization process  
**PA** - (B1) UNIVATION TECH LLC (US)  
**PA0** - Univation Technologies, LLC, Houston TX [US]  
**IN** - (B1) HOLTCAMP MATTHEW W (US); MCCONVILLE DAVID H (US)  
**IC** - (B1) C08F-004/44  
**AP** - US44355199 19991118 [1999US-0443551]  
**PR** - US44355199 19991118 [1999US-0443551]  
**ICAA** - C08F-010/02 [2006-01 A - I R M EP]; C08F-210/16 [2006-01 A - I R M EP];  
C08L-023/08 [2006-01 A - I R M EP]; C08L-023/16 [2006-01 A - I R M EP]  
C08F-004/659 [2006-01 A - N R M EP]; C08F-004/6592 [2006-01 A - N R M  
EP]  
**ICCA** - C08F-010/00 [2006 C - I R M EP]; C08F-210/00 [2006 C - I R M EP]; C08L-  
023/00 [2006 C - I R M EP]  
C08F-004/00 [2006 C - N R M EP]  
**EC** - C08F-010/02 C08F-004:02D  
C08F-010/02 C08F-004:64  
C08F-010/02 C08F-004:659  
C08F-010/02 C08F-004:659B  
C08F-210/16  
C08L-023/08A1 &B2  
C08L-023/16 &B2  
**ICO** - M08F-210/16 M08F-210:14 &MFI &MWDB &LMW &HMW &FILM  
M08F-004/659K  
M08F-004/6592  
M08L-023/08A1  
M08L-205/02  
M08L-314/06  
**PCL** - ORIGINAL (O) : 526161000; CROSS-REFERENCE (X) : 526127000  
526128000 526129000 526172000 526348200 526348500 526348600  
**DT** - Corresponding document  
**UP** - 2001-31

---

**1 / 1 LEGALI - ©EPO**

**PN** - US6265505 B1 20010724 [US6265505]  
**AP** - US44355199 19991118 [1999US-0443551]  
**ACTE** - 20000119 US/AS-A  
ASSIGNMENT  
OWNER: UNIVATION TECHNOLOGIES, LLC SUITE 1950 5555 SAN FE  
ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNORS:MCCONVILLE,  
DAVID H.;HOLTCAMP, MATTHEW  
W.;REEL/FRAME:010537/0314;SIGNING DATES FROM 20000103 TO  
20000104  
20021224 US/CC-A

## CERTIFICATE OF CORRECTION

UP - 2004-26

---

57 / 73 PLUSPAT - ©QUESTEL-ORBIT - image

**PN** - US6399722 B1 20020604 [US6399722]  
**STG** - (B1) U.S. Patent (no pre-grant pub.) after Jan. 2, 2001  
**TI** - (B1) Solution feed of multiple catalysts  
**PA** - (B1) UNIVATION TECH LLC (US)  
**PA0** - Univation Technologies, LLC, Houston TX [US]  
**IN** - (B1) SZUL JOHN F (US); ERICKSON KERSTEN ANNE (US); MAWSON SIMON (US); SCHRECK DAVID JAMES (US); GOODE MARK G (US); DANIELL PAUL T (US); MCKEE MATTHEW G (US); WILLIAMS CLARK C (US)  
**IC** - (B1) C08F-004/42  
**AP** - US45179299 19991201 [1999US-0451792]  
**PR** - US45179299 19991201 [1999US-0451792]  
**ICAA** - C08F-002/34 [2006-01 A F I R M JP]; C08F-002/00 [2006-01 A L I R M JP]; C08F-002/01 [2006-01 A L I R M JP]; C08F-004/42 [2006-01 A - I R M US]; C08F-004/60 [2006-01 A L I R M JP]; C08F-004/6192 [2006-01 A L I R M JP]; C08F-010/00 [2006-01 A L I R M JP]; C08F-010/02 [2006-01 A - I R M EP]; C08F-210/16 [2006-01 A - I R M EP]; C08L-023/08 [2006-01 A - I R M EP]; C08L-023/16 [2006-01 A - I R M EP]; C08F-004/659 [2006-01 A - N R M EP]; C08F-004/6592 [2006-01 A - N R M EP]  
**ICCA** - C08F-002/34 [2006 C F I R M JP]; C08F-002/00 [2006 C L I R M JP]; C08F-002/01 [2006 C L I R M JP]; C08F-004/00 [2006 C - I R M US]; C08F-010/00 [2006 C - I R M EP]; C08F-210/00 [2006 C - I R M EP]; C08L-023/00 [2006 C - I R M EP]  
**EC** - C08F-010/02 C08F-004:02D  
C08F-010/02 C08F-004:64  
C08F-010/02 C08F-004:659  
C08F-010/02 C08F-004:659B  
C08F-210/16  
C08L-023/08A1 &B2  
C08L-023/16 &B2  
**ICO** - M08F-004/659K  
M08F-004/659L  
M08F-004/6592  
M08F-210/16 M08F-210:14 &MFI &MWDB &LMW &HWM &FILM  
M08L-023/08A1  
M08L-205/02  
M08L-314/06  
**PCL** - ORIGINAL (O) : 526113000; CROSS-REFERENCE (X) : 502152000  
526118000 526160000 526161000 526348000 526943000  
**DT** - Basic  
**UP** - 2002-24

---

1 / 1 LEGALI - ©EPO

**PN** - US6399722 B1 20020604 [US6399722]  
**AP** - US45179299 19991201 [1999US-0451792]  
**ACTE** - 20000214 US/AS-A  
 ASSIGNMENT  
 OWNER: UNIVATION TECHNOLOGIES, LLC SUITE 1950 5555 SAN FE  
 ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNORS:SZUL, JOHN  
 F.;ERICKSON, KERSTEN ANNE;MAWSON, SIMON;AND  
 OTHERS;REEL/FRAME:010608/0512;SIGNING DATES FROM 20000113 TO  
 20000128  
**UP** - 2004-26

---

## 58 / 73 PLUSPAT - ©QUESTEL-ORBIT

**PN** - US6372868 B1 20020416 [US6372868]  
**STG** - (B1) U.S. Patent (no pre-grant pub.) after Jan. 2, 2001  
**TI** - (B1) Start up methods for multiple catalyst systems  
**PA** - (B1) UNIVATION TECH LLC (US)  
**PA0** - Univation Technologies, LLC, Houston TX [US]  
**IN** - (B1) SZUL JOHN F (US); ERICKSON KERSTEN ANNE (US); MAWSON  
 SIMON (US); DANIELL PAUL T (US); GOODE MARK G (US); MCKEE  
 MATTHEW G (US)  
**IC** - (B1) C08F-004/44  
**AP** - US45623499 19991207 [1999US-0456234]  
**PR** - US45623499 19991207 [1999US-0456234]  
**ICAA** - C08F-004/44 [2006-01 A - I R M US]; C08F-010/00 [2006-01 A - I R M EP];  
 C08F-210/16 [2006-01 A - I R M EP]  
 C08F-004/659 [2006-01 A - N R M EP]; C08F-004/6592 [2006-01 A - N R M  
 EP]  
**ICCA** - C08F-004/00 [2006 C - I R M US]; C08F-010/00 [2006 C - I R M EP]; C08F-  
 210/00 [2006 C - I R M EP]  
**EC** - C08F-010/00 C08F-002:00  
 C08F-210/16 C08F-004:659B  
**ICO** - M08F-004/659  
 M08F-004/659K  
 M08F-004/6592  
 M08F-210/16 M08F-210:14 &MFI &MWDBI &LMW &HMW  
**PCL** - ORIGINAL (O) : 526114000; CROSS-REFERENCE (X) : 526078000  
 526079000 526090000 526119000 526348200 526348500 526348600  
 526901000 526905000  
**DT** - Basic  
**UP** - 2002-17

---

## 1 / 1 LEGALI - ©EPO

**PN** - US6372868 B1 20020416 [US6372868]  
**AP** - US45623499 19991207 [1999US-0456234]  
**ACTE** - 20000214 US/AS-A  
 ASSIGNMENT  
 OWNER: UNIVATION TECHNOLOGIES, LLC SUITE 1950 5555 SAN FE  
 ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNORS:SZUL, JOHN  
 F.;ERICKSON, KERSTEN ANNE;MAWSON, SIMON;AND  
 OTHERS;REEL/FRAME:010608/0534;SIGNING DATES FROM 20000113 TO  
 20000128  
**UP** - 2004-26

---

59 / 73 *PLUSPAT - ©QUESTEL-ORBIT - image*

**PN** - US6380328 B1 20020430 [US6380328]  
**STG** - (B1) U.S. Patent (no pre-grant pub.) after Jan. 2, 2001  
**TI** - (B1) Catalyst systems and their use in a polymerization process  
**PA** - (B1) UNIVATION TECH LLC (US)  
**PA0** - Univation Technologies, LLC; Houston TX [US]  
**IN** - (B1) HOLTCAMP MATTHEW W (US); LOVEDAY DONALD R (US);  
 MCCONVILLE DAVID H (US)  
**IC** - (B1) C08F-004/44 C08H-004/16  
**AP** - US46017999 19991210 [1999US-0460179]  
**PR** - US46017999 19991210 [1999US-0460179]  
**ICAA** - C08F-010/02 [2006-01 A - I R M EP]; C08F-210/16 [2006-01 A - I R M EP];  
 C08L-023/08 [2006-01 A - I R M EP]; C08L-023/16 [2006-01 A - I R M EP]  
 C08F-004/659 [2006-01 A - N R M EP]; C08F-004/6592 [2006-01 A - N R M  
 EP]  
**ICCA** - C08F-010/00 [2006 C - I R M EP]; C08F-210/00 [2006 C - I R M EP]; C08L-  
 023/00 [2006 C - I R M EP]  
 C08F-004/00 [2006 C - N R M EP]  
**EC** - C08F-010/02 C08F-004:02D  
 C08F-010/02 C08F-004:64  
 C08F-010/02 C08F-004:659  
 C08F-010/02 C08F-004:659B  
 C08F-210/16  
 C08L-023/08A1 &B2  
 C08L-023/16 &B2  
**ICO** - M08F-210/16 M08F-210:14 &MFI &MWDB &LMW &HMW &FILM  
 M08F-004/659K  
 M08F-004/6592  
 M08L-023/08A1  
 M08L-205/02  
 M08L-314/06  
**PCL** - ORIGINAL (O) : 526119000; CROSS-REFERENCE (X) : 502152000  
 502155000 526160000 526161000 526172000  
**DT** - Corresponding document

UP - 2002-19

---

1 / 1 LEGALI - ©EPO

**PN** - US6380328 B1 20020430 [US6380328]  
**AP** - US46017999 19991210 [1999US-0460179]  
**ACTE** - 20000320 US/AS-A  
 ASSIGNMENT  
 OWNER: UNIVATION TECHNOLOGIES, LLC SUITE 1950 5555 SAN FE  
 ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNORS:MCCONVILLE,  
 DAVID H.;HOLTCAMP, MATTHEW W.;LOVEDAY, DONALD  
 R.;REEL/FRAME:010684/0522;SIGNING DATES FROM 20000112 TO  
 20000113  
**UP** - 2004-27

---

60 / 73 PLUSPAT - ©QUESTEL-ORBIT - image

**PN** - US2002082367 A1 20020627 [US20020082367]  
**STG** - (A1) Utility Patent Application published on or after January 2, 2001  
**TI** - (A1) Catalyst systems and their use in a polymerization process  
**PA** - (B2) UNIVATION TECH LLC (US)  
**PA0** - Univation Technologies, LLC, Houston TX [US]  
**IN** - (A1) HOLTCAMP MATTHEW W (US); LOVEDAY DONALD R (US);  
 MCCONVILLE DAVID H (US)  
**IC** - (A1) C08F-004/44  
**PN2** - US6620757 B2 20030916 [US6620757]  
**STG2** - (B2) U.S. Patent (with pre-grant pub.) after Jan. 2, 2001  
**TI2** - (B2) Catalyst systems and their use in a polymerization process  
**PA2** - (B2) UNIVATION TECH LLC (US)  
**IN2** - (B2) HOLTCAMP MATTHEW W (US); LOVEDAY DONALD R (US);  
 MCCONVILLE DAVID H (US)  
**IC2** - (B2) B01J-031/38 C08F-004/44  
**AP** - US5741702 20020125 [2002US-0057417]  
**PR** - US5741702 20020125 [2002US-0057417]  
 US46017999 19991210 [1999US-0460179]  
**ICAA** - C08F-010/02 [2006-01 A - I R M EP]; C08F-210/16 [2006-01 A - I R M EP];  
 C08L-023/08 [2006-01 A - I R M EP]; C08L-023/16 [2006-01 A - I R M EP]  
 C08F-004/659 [2006-01 A - N R M EP]; C08F-004/6592 [2006-01 A - N R M  
 EP]  
**ICCA** - C08F-010/00 [2006 C - I R M EP]; C08F-210/00 [2006 C - I R M EP]; C08L-  
 023/00 [2006 C - I R M EP]  
 C08F-004/00 [2006 C - N R M EP]  
**EC** - C08F-010/02 C08F-004:02D  
 C08F-010/02 C08F-004:64  
 C08F-010/02 C08F-004:659  
 C08F-010/02 C08F-004:659B

C08F-210/16  
 C08L-023/08A1 &B2  
 C08L-023/16 &B2  
**ICO** - M08F-210/16 M08F-210:14 &MFI &MWDB &LMW &HMM &FILM  
 M08F-004/659K  
 M08F-004/659L  
 M08F-004/6592  
 M08L-023/08A1  
 M08L-205/02  
**PCL** - ORIGINAL (O) : 502104000; CROSS-REFERENCE (X) : 502118000  
 502132000 502152000 502167000 526129000 526160000 526161000  
 526171000 526943000  
**DT** - Corresponding document  
**UP** - 2002-27

61 / 73 PLUSPAT - ©QUESTEL-ORBIT

**PN** - US2004034179 A1 20040219 [US20040034179]  
**STG** - (A1) Utility Patent Application published on or after January 2, 2001  
**TI** - (A1) Catalyst composition, method of polymerization, and polymer therefrom  
**PA** - (B2) UNIVATION TECH LLC (US)  
**PA0** - Univation Technologies, LLC, Houston TX [US]  
**IN** - (A1) ERICKSON KERSTEN ANNE (US); KAROL FREDERICK J (US);  
 SCHRECK DAVID JAMES (US); SZUL JOHN F (US); KWACK TAE HOON  
 (US); MAWSON SIMON (US); LOVEDAY DONALD R (US);  
 MCCONVILLE DAVID H (US)  
**IC** - (A1) C08F-004/02  
**PN2** - US6841631 B2 20050111 [US6841631]  
**STG2** - (B2) U.S. Patent (with pre-grant pub.) after Jan. 2, 2001  
**TI2** - (B2) Catalyst composition, method of polymerization, and polymer therefrom  
**PA2** - (B2) UNIVATION TECH LLC (US)  
**IN2** - (B2) ERICKSON KERSTEN ANNE (US); KAROL FREDERICK J (US);  
 SCHRECK DAVID JAMES (US); SZUL JOHN F (US); KWACK TAE HOON  
 (US); MAWSON SIMON (US); LOVEDAY DONALD R (US);  
 MCCONVILLE DAVID H (US)  
**IC2** - (B2) C08F-004/44  
**AP** - US63229503 20030801 [2003US-0632295]  
**PR** - US63229503 20030801 [2003US-0632295]  
 US86506701 20010524 [2001US-0865067]  
 US42538799 19991022 [1999US-0425387]  
**ICAA** - C08F-010/00 [2006-01 A - I R M EP]; C08F-010/02 [2006-01 A - I R M EP];  
 C08F-210/16 [2006-01 A - I R M EP]; C08L-023/08 [2006-01 A - I R M EP];  
 C08L-023/16 [2006-01 A - I R M EP]  
 C08F-004/659 [2006-01 A - N R M EP]; C08F-004/6592 [2006-01 A - N R M  
 EP]  
**ICCA** - C08F-010/00 [2006 C - I R M EP]; C08F-210/00 [2006 C - I R M EP]; C08L-



023/00 [2006 C - I R M EP]  
 C08F-004/00 [2006 C - N R M EP]

**EC** - C08F-010/00 C08F-002:00  
 C08F-010/02 C08F-004:02D  
 C08F-010/02 C08F-004:64  
 C08F-010/02 C08F-004:659  
 C08F-010/02 C08F-004:659B  
 C08F-210/16  
 C08L-023/08A1 &B2  
 C08L-023/16 &B2

**ICO** - M08F-210/16 M08F-210:14 &MFI &MWDB &LMW &HWM &FILM  
 M08F-210/16 M08F-210:14 &MFI &MWDBI &LMW &HWM  
 M08F-004/659  
 M08F-004/659K  
 M08F-004/659L  
 M08F-004/6592  
 M08L-023/08A1  
 M08L-205/02

**PCL** - ORIGINAL (O) : 526114000; CROSS-REFERENCE (X) : 526160000  
 526172000 526348200

**DT** - Corresponding document

**UP** - 2004-10

---

62 / 73 PLUSPAT - ©QUESTEL-ORBIT

**PN** - US2004030070 A1 20040212 [US20040030070]

**STG** - (A1) Utility Patent Application published on or after January 2, 2001

**TI** - (A1) Catalyst composition, method of polymerization, and polymer therefrom

**PA** - (B2) UNIVATION TECH LLC (US)

**PA0** - Univation Technologies, LLC, Houston TX [US]

**IN** - (A1) ERICKSON KERSTEN ANNE (US); KAROL FREDERICK J (US);  
 SCHRECK DAVID JAMES (US); SZUL JOHN F (US); KWACK TAE HOON  
 (US); MAWSON SIMON (US); LOVEDAY DONALD R (US);  
 MCCONVILLE DAVID H (US)

**IC** - (A1) C08F-004/44

**PN2** - US6894128 B2 20050517 [US6894128]

**STG2** - (B2) U.S. Patent (with pre-grant pub.) after Jan. 2, 2001

**TI2** - (B2) Catalyst composition, method of polymerization, and polymer therefrom

**PA2** - (B2) UNIVATION TECH LLC (US)

**IN2** - (B2) ERICKSON KERSTEN ANNE (US); KAROL FREDERICK J (US);  
 SCHRECK DAVID JAMES (US); SZUL JOHN F (US); KWACK TAE HOON  
 (US); MAWSON SIMON (US); LOVEDAY DONALD R (US);  
 MCCONVILLE DAVID H (US)

**IC2** - (B2) C08F-004/06 C08F-004/44 C08F-004/68 C08F-004/72 C08F-004/80

**AP** - US63447403 20030805 [2003US-0634474]

**PR** - US63447403 20030805 [2003US-0634474]

US86506701 20010524 [2001US-0865067]  
 US42538799 19991022 [1999US-0425387]

**ICAA** - C08F-010/00 [2006-01 A - I R M EP]; C08F-010/02 [2006-01 A - I R M EP];  
 C08F-210/16 [2006-01 A - I R M EP]; C08L-023/08 [2006-01 A - I R M EP];  
 C08L-023/16 [2006-01 A - I R M EP]  
 C08F-004/659 [2006-01 A - N R M EP]; C08F-004/6592 [2006-01 A - N R M  
 EP]

**ICCA** - C08F-010/00 [2006 C - I R M EP]; C08F-210/00 [2006 C - I R M EP]; C08L-  
 023/00 [2006 C - I R M EP]  
 C08F-004/00 [2006 C - N R M EP]

**EC** - C08F-010/00 C08F-002:00  
 C08F-010/02 C08F-004:02D  
 C08F-010/02 C08F-004:64  
 C08F-010/02 C08F-004:659  
 C08F-010/02 C08F-004:659B  
 C08F-210/16  
 C08L-023/08A1 &B2  
 C08L-023/16 &B2

**ICO** - M08F-210/16 M08F-210:14 &MFI &MWDB &LMW &HMW &FILM  
 M08F-210/16 M08F-210:14 &MFI &MWDBI &LMW &HMW  
 M08F-004/659  
 M08F-004/659K  
 M08F-004/659L  
 M08F-004/6592  
 M08L-023/08A1  
 M08L-205/02

**PCL** - ORIGINAL (O) : 526113000; CROSS-REFERENCE (X) : 526114000  
 526116000 526117000 526118000 526119000 526161000 526171000  
 526943000

**DT** - Corresponding document

**UP** - 2004-09

---

63 / 73 PLUSPAT - ©QUESTEL-ORBIT

**PN** - US2004030066 A1 20040212 [US20040030066]

**STG** - (A1) Utility Patent Application published on or after January 2, 2001

**TI** - (A1) Catalyst composition, method of polymerization, and polymer therefrom

**IN** - (A1) ERICKSON KERSTEN ANNE (US); KAROL FREDERICK J (US);  
 SCHRECK DAVID JAMES (US); SZUL JOHN F (US); KWACK TAE HOON  
 (US); MAWSON SIMON (US); LOVEDAY DONALD R (US);  
 MCCONVILLE DAVID H (US)

**IC** - (A1) C08F-004/06

**AP** - US63586403 20030806 [2003US-0635864]

**PR** - US63586403 20030806 [2003US-0635864]  
 US86506701 20010524 [2001US-0865067]  
 US42538799 19991022 [1999US-0425387]

**ICAA** - C08F-010/00 [2006-01 A - I R M EP]; C08F-010/02 [2006-01 A - I R M EP];

C08F-210/16 [2006-01 A - I R M EP]; C08L-023/08 [2006-01 A - I R M EP];  
 C08L-023/16 [2006-01 A - I R M EP]  
 C08F-004/659 [2006-01 A - N R M EP]; C08F-004/6592 [2006-01 A - N R M EP]

**ICCA** - C08F-010/00 [2006 C - I R M EP]; C08F-210/00 [2006 C - I R M EP]; C08L-023/00 [2006 C - I R M EP]  
 C08F-004/00 [2006 C - N R M EP]

**EC** - C08F-010/00 C08F-002:00  
 C08F-010/02 C08F-004:02D  
 C08F-010/02 C08F-004:64  
 C08F-010/02 C08F-004:659  
 C08F-010/02 C08F-004:659B  
 C08F-210/16  
 C08L-023/08A1 &B2  
 C08L-023/16 &B2

**ICO** - M08F-210/16 M08F-210:14 &MFI &MWDB &LMW &HMM &FILM  
 M08F-210/16 M08F-210:14 &MFI &MWDBI &LMW &HMM  
 M08F-004/659  
 M08F-004/659K  
 M08F-004/659L  
 M08F-004/6592  
 M08L-023/08A1  
 M08L-205/02

**PCL** - ORIGINAL (O) : 526113000; CROSS-REFERENCE (X) : 526352000  
 526348100

**DT** - Corresponding document

**UP** - 2004-09

---

64 / 73 PLUSPAT - ©QUESTEL-ORBIT

**PN** - US2002016257 A1 20020207 [US20020016257]

**STG** - (A1) Utility Patent Application published on or after January 2, 2001

**TI** - (A1) Catalyst system and its use in a polymerization process

**IN** - (A1) HOLT CAMP MATTHEW W (US); MCCONVILLE DAVID H (US)

**IC** - (A1) B01J-031/00

**AP** - US82798101 20010406 [2001US-0827981]

**PR** - US82798101 20010406 [2001US-0827981]  
 US44355199 19991118 [1999US-0443551]

**ICAA** - C08F-010/02 [2006-01 A - I R M EP]; C08F-210/16 [2006-01 A - I R M EP];  
 C08L-023/08 [2006-01 A - I R M EP]; C08L-023/16 [2006-01 A - I R M EP]  
 C08F-004/659 [2006-01 A - N R M EP]; C08F-004/6592 [2006-01 A - N R M EP]

**ICCA** - C08F-010/00 [2006 C - I R M EP]; C08F-210/00 [2006 C - I R M EP]; C08L-023/00 [2006 C - I R M EP]  
 C08F-004/00 [2006 C - N R M EP]

**EC** - C08F-010/02 C08F-004:02D  
 C08F-010/02 C08F-004:64

C08F-010/02 C08F-004:659  
 C08F-010/02 C08F-004:659B  
 C08F-210/16  
 C08L-023/08A1 &B2  
 C08L-023/16 &B2  
**ICO** - M08F-210/16 M08F-210:14 &MFI &MWDB &LMW &HWM &FILM  
 M08F-004/659K  
 M08F-004/659L  
 M08F-004/6592  
 M08L-023/08A1  
 M08L-205/02  
**PCL** - ORIGINAL (O) : 502150000; CROSS-REFERENCE (X) : 502102000  
 502103000  
**DT** - Corresponding document  
**UP** - 2002-07

---

65 / 73 PLUSPAT - ©QUESTEL-ORBIT

**PN** - US2001044508 A1 20011122 [US20010044508]  
**STG** - (A1) Utility Patent Application published on or after January 2, 2001  
**TI** - (A1) Catalyst composition, method of polymerization, and polymer therefrom  
**PA** - (B2) UNIVATION TECH LLC (US)  
**PA0** - Univation Technologies, LLC, Houston TX [US]  
**IN** - (A1) ERICKSON KERSTEN ANNE (US); KAROL FREDERICK J (US);  
 SCHRECK DAVID JAMES (US); SZUL JOHN F (US); KWACK TAE HOON  
 (US); MAWSON SIMON (US); LOVEDAY DONALD R (US);  
 MCCONVILLE DAVID H (US)  
**IC** - (A1) C08F-004/02  
**PN2** - US6534604 B2 20030318 [US6534604]  
**STG2** - (B2) U.S. Patent (with pre-grant pub.) after Jan. 2, 2001  
**TI2** - (B2) Catalyst composition, method of polymerization, and polymer therefrom  
**PA2** - (B2) UNIVATION TECH LLC (US)  
**IN2** - (B2) ERICKSON KERSTEN ANNE (US); KAROL FREDERICK J (US);  
 SCHRECK DAVID JAMES (US); SZUL JOHN F (US); KWACK TAE HOON  
 (US); MAWSON SIMON (US); LOVEDAY DONALD R (US);  
 MCCONVILLE DAVID H (US)  
**IC2** - (B2) C08F-004/72  
**AP** - US86457101 20010524 [2001US-0864571]  
**PR** - US86457101 20010524 [2001US-0864571]  
 US42538799 19991022 [1999US-0425387]  
**ICAA** - C08F-010/00 [2006-01 A - I R M EP]; C08F-010/02 [2006-01 A - I R M EP];  
 C08F-210/16 [2006-01 A - I R M EP]; C08L-023/08 [2006-01 A - I R M EP];  
 C08L-023/16 [2006-01 A - I R M EP]  
 C08F-004/659 [2006-01 A - N R M EP]; C08F-004/6592 [2006-01 A - N R M  
 EP]  
**ICCA** - C08F-010/00 [2006 C - I R M EP]; C08F-210/00 [2006 C - I R M EP]; C08L-

023/00 [2006 C - I R M EP]  
 C08F-004/00 [2006 C - N R M EP]

**EC** - C08F-010/00 C08F-002:00  
 C08F-010/02 C08F-004:02D  
 C08F-010/02 C08F-004:64  
 C08F-010/02 C08F-004:659  
 C08F-010/02 C08F-004:659B  
 C08F-210/16  
 C08L-023/08A1 &B2  
 C08L-023/16 &B2

**ICO** - M08F-210/16 M08F-210:14 &MFI &MWDB &LMW &HMW &FILM  
 M08F-210/16 M08F-210:14 &MFI &MWDBI &LMW &HMW  
 M08F-004/659  
 M08F-004/659K  
 M08F-004/659L  
 M08F-004/6592  
 M08L-023/08A1  
 M08L-205/02

**PCL** - ORIGINAL (O) : 526113000; CROSS-REFERENCE (X) : 526114000  
 526348100 526348200 526348500 526348600 526351000

**DT** - Corresponding document

**UP** - 2001-48

---

66 / 73 *PLUSPAT - ©QUESTEL-ORBIT*

**PN** - US2002052453 A1 20020502 [US20020052453]

**STG** - (A1) Utility Patent Application published on or after January 2, 2001

**TI** - (A1) Catalyst composition, method of polymerization, and polymer therefrom

**IN** - (A1) ERICKSON KERSTEN ANNE (US); KAROL FREDERICK J (US);  
 SCHRECK DAVID JAMES (US); SZUL JOHN F (US); KWACK TAE HOON  
 (US); MAWSON SIMON (US); LOVEDAY DONALD R (US);  
 MCCONVILLE DAVID H (US)

**IC** - (A1) C08F-004/06

**AP** - US86506701 20010524 [2001US-0865067]

**PR** - US86506701 20010524 [2001US-0865067]  
 US42538799 19991022 [1999US-0425387]

**ICAA** - C08F-010/00 [2006-01 A - I R M EP]; C08F-010/02 [2006-01 A - I R M EP];  
 C08F-210/16 [2006-01 A - I R M EP]; C08L-023/08 [2006-01 A - I R M EP];  
 C08L-023/16 [2006-01 A - I R M EP]  
 C08F-004/659 [2006-01 A - N R M EP]; C08F-004/6592 [2006-01 A - N R M  
 EP]

**ICCA** - C08F-010/00 [2006 C - I R M EP]; C08F-210/00 [2006 C - I R M EP]; C08L-  
 023/00 [2006 C - I R M EP]  
 C08F-004/00 [2006 C - N R M EP]

**EC** - C08F-010/00 C08F-002:00  
 C08F-010/02 C08F-004:02D  
 C08F-010/02 C08F-004:64

C08F-010/02 C08F-004:659  
 C08F-010/02 C08F-004:659B  
 C08F-210/16  
 C08L-023/08A1 &B2  
 C08L-023/16 &B2  
**ICO** - M08F-210/16 M08F-210:14 &MFI &MWDB &LMW &HWM &FILM  
 M08F-210/16 M08F-210:14 &MFI &MWDBI &LMW &HWM  
 M08F-004/659  
 M08F-004/659K  
 M08F-004/659L  
 M08F-004/6592  
 M08L-023/08A1  
 M08L-205/02  
**PCL** - ORIGINAL (O) : 526113000; CROSS-REFERENCE (X) : 526348100  
 526352000 502113000  
**DT** - Corresponding document  
**UP** - 2002-20

---

67 / 73 PLUSPAT - ©QUESTEL-ORBIT

**PN** - US2002010076 A1 20020124 [US20020010076]  
**STG** - (A1) Utility Patent Application published on or after January 2, 2001  
**TI** - (A1) Group 15 containing transition metal catalyst compounds and catalyst systems  
**IN** - (A1) MCCONVILLE DAVID H (US)  
**IC** - (A1) B01J-031/00  
**AP** - US93077401 20010816 [2001US-0930774]  
**PR** - US93077401 20010816 [2001US-0930774]  
 US43540999 19991108 [1999US-0435409]  
**ICAA** - C08F-010/02 [2006-01 A - I R M EP]; C08F-210/16 [2006-01 A - I R M EP];  
 C08L-023/08 [2006-01 A - I R M EP]; C08L-023/16 [2006-01 A - I R M EP]  
 C08F-004/659 [2006-01 A - N R M EP]; C08F-004/6592 [2006-01 A - N R M EP]  
**ICCA** - C08F-010/00 [2006 C - I R M EP]; C08F-210/00 [2006 C - I R M EP]; C08L-  
 023/00 [2006 C - I R M EP]  
 C08F-004/00 [2006 C - N R M EP]  
**EC** - C08F-010/02 C08F-004:02D  
 C08F-010/02 C08F-004:64  
 C08F-010/02 C08F-004:659  
 C08F-010/02 C08F-004:659B  
 C08F-210/16  
 C08L-023/08A1 &B2  
 C08L-023/16 &B2  
**ICO** - M08F-210/16 M08F-210:14 &MFI &MWDB &LMW &HWM &FILM  
 M08F-004/659K  
 M08F-004/659L  
 M08F-004/6592

M08L-023/08A1  
M08L-205/02

**PCL** - ORIGINAL (O) : 502103000; CROSS-REFERENCE (X) : 502102000  
502113000 502117000

**DT** - Corresponding document

**UP** - 2002-05

---

68 / 73 *PLUSPAT - ©QUESTEL-ORBIT*

**PN** - WO200130861 A1 20010503 [WO200130861]

**STG** - (A1) Publ. Of int. Appl. With int. Search rep

**TI** - (A1) CATALYST COMPOSITIONS, METHODS OF POLYMERIZATION, AND POLYMERS THEREFROM

**OTI** - (A1) COMPOSITIONS CATALYTIQUES, PROCEDES DE POLYMERISATION ET POLYMERES FABRIQUES A PARTIR DE CES COMPOSITIONS

**PA** - (A1) UNIVATION TECH LLC (US)

**PA0** - UNIVATION TECHNOLOGIES, LLC ; Suite 1950 5555 San Felipe Houston, TX 77056 (US)

**IN** - (A1) MCCONVILLE DAVID H; LOVEDAY DONALD R; HOLTCAMP MATTHEW W; SZUL JOHN F; ERICKSON KERSTEN ANNE; MAWSON SIMON; KWACK TAE HOON; KAROL FREDERICK J; SCHRECK DAVID JAMES; GOODE MARK G; DANIELL PAUL T; MCKEE MATTHEW G; WILLIAMS CLARK C

**IC** - (A1) C08F-004/64 C08F-010/00 C08F-010/02

**LA** - ENGLISH (ENG)

**AP** - WOUS0013313 20000515 [2000WO-US13313]

**PR** - US42538799 19991022 [1999US-0425387]  
US43540999 19991108 [1999US-0435409]  
US44355199 19991118 [1999US-0443551]  
US44281399 19991118 [1999US-0442813]  
US45179299 19991201 [1999US-0451792]  
US46017999 19991210 [1999US-0460179]

**ICAA** - C08J-005/18 [2006-01 A F I R M JP]; C08F-004/64 [2006-01 A - I R M WO]; C08F-004/659 [2006-01 A L I R M JP]; C08F-010/00 [2006-01 A - I R M EP]; C08F-010/02 [2006-01 A - I R M EP]; C08F-210/16 [2006-01 A - I R M EP]; C08L-023/08 [2006-01 A - I R M EP]; C08L-023/16 [2006-01 A - I R M EP] C08F-004/6592 [2006-01 A - N R M EP]

**ICCA** - C08J-005/18 [2006 C F I R M JP]; C08F-004/00 [2006 C - I R M WO]; C08F-010/00 [2006 C - I R M EP]; C08F-210/00 [2006 C - I R M EP]; C08L-023/00 [2006 C - I R M EP]

**EC** - C08F-010/00 C08F-002:00  
C08F-010/02 C08F-004:02D  
C08F-010/02 C08F-004:64  
C08F-010/02 C08F-004:659  
C08F-010/02 C08F-004:659B  
C08F-210/16

C08L-023/08A1 &B2  
 C08L-023/16 &B2  
**ICO** - M08F-004/659  
 M08F-004/659K  
 M08F-004/659L  
 M08F-004/6592  
 M08F-210/16 M08F-210:14 &MFI &MWDB &LMW &HMW &FILM  
 M08F-210/16 M08F-210:14 &MFI &MWDBI &LMW &HMW  
 M08L-023/08A1  
 M08L-205/02  
 M08L-314/06  
**DS** - AU BR BY CA CN CZ ID IL IN JP KR MX NO PL RU SG SK TR ZA  
 Eurasian patent : AM AZ BY KG KZ MD RU TJ TM  
 European patent : AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL  
 PT SE  
**DT** - Basic  
**UP** - 2001-19

---

*1 / 1 LEGALI - ©EPO*

**PN** - WO200130861 A1 20010503 [WO200130861]  
**AP** - WOUS0013313 20000515 [2000WO-US13313]  
**ACTE** -  
 20010503 WO/AK [+]  
 DESIGNATED STATES CITED IN A PUBLISHED APPLICATION WITH  
 SEARCH REPORT  
 AU BR BY CA CN CZ ID IL IN JP KR MX NO PL RU SG SK TR ZA  
  
 20010503 WO/AL [+]  
 DESIGNATED COUNTRIES FOR REGIONAL PATENTS CITED IN A  
 PUBLISHED APPLICATION WITH SEARCH REPORT  
 AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR GB GR  
 IE IT LU MC NL PT SE  
  
 20010627 WO/121  
 EP: THE EPO HAS BEEN INFORMED BY WIPO THAT EP WAS  
 DESIGNATED IN THIS APPLICATION  
  
 20010809 WO/DFPE  
 REQUEST FOR PRELIMINARY EXAMINATION FILED PRIOR TO  
 EXPIRATION OF 19TH MONTH FROM PRIORITY DATE  
  
 20020419 WO/WWE [+]  
 WIPO INFORMATION: ENTRY INTO NATIONAL PHASE  
 < 47139/00 >  
  
 20020422 WO/ENP  
 ENTRY INTO THE NATIONAL PHASE IN:  
 JP 2001 533857A [2001JP-0533857]



20020422 WO/ENP  
ENTRY INTO THE NATIONAL PHASE IN:  
SK 5502002 [2000SK-5502002]

20020422 WO/ENP  
ENTRY INTO THE NATIONAL PHASE IN:  
CA 2388137 [2000CA-2388137]

20020422 WO/WWE [+]  
WIPO INFORMATION: ENTRY INTO NATIONAL PHASE  
< 1020027005182 >

20020422 WO/WWE [+]  
WIPO INFORMATION: ENTRY INTO NATIONAL PHASE  
< 2388137 >

20020522 WO/ENP  
ENTRY INTO THE NATIONAL PHASE IN:  
RU 2002 2002113167A [2002RU-0113167]

20020529 WO/WWE [+]  
WIPO INFORMATION: ENTRY INTO NATIONAL PHASE  
< 008164428 >

20020719 WO/WWP [+]  
WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE  
< 1020027005182 >

20040311 WO/WWG [+]  
WIPO INFORMATION: GRANT IN NATIONAL OFFICE  
< 47139/00 >

20050912 WO/WWR [-]  
WIPO INFORMATION: REFUSED IN NATIONAL OFFICE  
< 1020027005182 >

**UP** - 2007-38

---

69 / 73 PLUSPAT - ©QUESTEL-ORBIT

**PN** - WO200130862 A1 20010503 [WO200130862]  
**STG** - (A1) Publ. Of int. Appl. With int. Search rep  
**TI** - (A1) START UP METHODS FOR MULTIPLE CATALYST SYSTEMS  
**OTI** - (A1) PROCEDES DE MISE EN ROUTE DE SYSTEMES A CATALYSEURS MULTIPLES  
**PA** - (A1) UNIVATION TECH LLC (US)  
**PA0** - UNIVATION TECHNOLOGIES, LLC ; Suite 1950 5555 San Felipe Houston, TX 77056 (US)  
**IN** - (A1) SZUL JOHN F; ERICKSON KERSTEN ANNE; MAWSON SIMON; DANIELL PAUL T; GOODE MARK G; MCKEE MATTHEW G

**IC** - (A1) C08F-010/00 C08F-010/02  
**LA** - ENGLISH (ENG)  
**AP** - WOUS0013378 20000515 [2000WO-US13378]  
**PR** - US42538799 19991022 [1999US-0425387]  
 US45623499 19991207 [1999US-0456234]  
**ICAA** - C08F-002/34 [2006-01 A F I R M JP]; C08F-002/00 [2006-01 A L I R M JP];  
 C08F-004/64 [2006-01 A L I R M JP]; C08F-010/00 [2006-01 A - I R M EP];  
 C08F-210/16 [2006-01 A - I R M EP]; C08L-023/08 [2006-01 A - I R M EP]  
 C08F-004/659 [2006-01 A - N R M EP]; C08F-004/6592 [2006-01 A - N R M  
 EP]  
**ICCA** - C08F-002/34 [2006 C F I R M JP]; C08F-002/00 [2006 C L I R M JP]; C08F-  
 004/00 [2006 C L I R M JP]; C08F-010/00 [2006 C - I R M EP]; C08F-210/00  
 [2006 C - I R M EP]; C08L-023/00 [2006 C - I R M EP]  
**EC** - C08F-210/16 C08F-004:659B  
 C08F-010/00 C08F-002:00  
**ICO** - M08F-210/16 M08F-210:14 &MFI &MWDBI &LMW &Hmw  
 M08F-004/659  
 M08F-004/659K  
 M08F-004/6592  
 M08L-023/08A1  
**DS** - AU; BR; BY; CA; CN; CZ; ID; IL; IN; JP; KR; MX; NO; PL; RU; SG; SK; TR;  
 ZA; Eurasian Patent (AM; AZ; BY; KG; KZ; MD; RU; TJ; TM); European  
 Patent (AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL;  
 PT; SE)  
**DT** - Basic  
**UP** - 2001-19

---

*1 / 1 LEGALI - ©EPO*

**PN** - WO200130862 A1 20010503 [WO200130862]  
**AP** - WOUS0013378 20000515 [2000WO-US13378]  
**ACTE** - 20010503 WO/AK [+]  
 DESIGNATED STATES CITED IN A PUBLISHED APPLICATION WITH  
 SEARCH REPORT  
 AU BR BY CA CN CZ ID IL IN JP KR MX NO PL RU SG SK TR ZA  
  
 20010503 WO/AL [+]  
 DESIGNATED COUNTRIES FOR REGIONAL PATENTS CITED IN A  
 PUBLISHED APPLICATION WITH SEARCH REPORT  
 AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR GB GR  
 IE IT LU MC NL PT SE  
  
 20010627 WO/121  
 EP: THE EPO HAS BEEN INFORMED BY WIPO THAT EP WAS  
 DESIGNATED IN THIS APPLICATION  
  
 20010809 WO/DFPE  
 REQUEST FOR PRELIMINARY EXAMINATION FILED PRIOR TO

## EXPIRATION OF 19TH MONTH FROM PRIORITY DATE

20020419 WO/WWE [+]

WIPO INFORMATION: ENTRY INTO NATIONAL PHASE  
< 50184/00 >

20020422 WO/ENP

ENTRY INTO THE NATIONAL PHASE IN:  
JP 2001 533858A [2001JP-0533858]

20020422 WO/ENP

ENTRY INTO THE NATIONAL PHASE IN:  
SK 5492002 [2000SK-5492002]

20020422 WO/ENP

ENTRY INTO THE NATIONAL PHASE IN:  
CA 2388145 [2000CA-2388145]

20020422 WO/WWE [+]

WIPO INFORMATION: ENTRY INTO NATIONAL PHASE  
< 1020027005177 >

20020422 WO/WWE [+]

WIPO INFORMATION: ENTRY INTO NATIONAL PHASE  
< 2388145 >

20020522 WO/ENP

ENTRY INTO THE NATIONAL PHASE IN:  
RU 2002 2002112755A [2002RU-0112755]

20020523 WO/WWE [+]

WIPO INFORMATION: ENTRY INTO NATIONAL PHASE  
< 008161011 >

20020726 WO/WWP [+]

WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE  
< 1020027005177 >

20031113 WO/WWG [+]

WIPO INFORMATION: GRANT IN NATIONAL OFFICE  
< 50184/00 >

20060227 WO/WWG [+]

WIPO INFORMATION: GRANT IN NATIONAL OFFICE  
< 1020027005177 >

UP - 2007-38

---

70 / 73 PLUSPAT - ©QUESTEL-ORBIT

PN - WO200140330 A1 20010607 [WO200140330]

**STG** - (A1) Publ. Of int. Appl. With int. Search rep  
**TI** - (A1) SOLUTION FEED OF MULTIPLE CATALYSTS  
**OTI** - (A1) ALIMENTATION DE PLUSIEURS CATALYSEURS EN SOLUTION  
**PA** - (A1) UNIVATION TECH LLC (US)  
**PA0** - UNIVATION TECHNOLOGIES, LLC ; Suite 1950 5555 San Felipe Houston, TX 77056 (US)  
**IN** - (A1) ERICKSON KERSTEN ANNE; SCHRECK DAVID JAMES; SZUL JOHN F; DANIELL PAUL T; GOODE MARK G; MAWSON SIMON; MCKEE MATTHEW G; WILLIAMS CLARK C  
**IC** - (A1) C08F-210/16  
**LA** - ENGLISH (ENG)  
**AP** - WOUS0013373 20000515 [2000WO-US13373]  
**PR** - US45179299 19991201 [1999US-0451792]  
**ICAA** - C08F-010/02 [2006-01 A - I R M EP]; C08F-210/16 [2006-01 A - I R M EP]; C08L-023/08 [2006-01 A - I R M EP]; C08L-023/16 [2006-01 A - I R M EP] C08F-004/659 [2006-01 A - N R M EP]; C08F-004/6592 [2006-01 A - N R M EP]  
**ICCA** - C08F-010/00 [2006 C - I R M EP]; C08F-210/00 [2006 C - I R M EP]; C08L-023/00 [2006 C - I R M EP] C08F-004/00 [2006 C - N R M EP]  
**EC** - C08F-010/02 C08F-004:02D  
C08F-010/02 C08F-004:64  
C08F-010/02 C08F-004:659  
C08F-010/02 C08F-004:659B  
C08F-210/16  
C08L-023/08A1 &B2  
C08L-023/16 &B2  
**ICO** - M08F-210/16 M08F-210:14 &MFI &MWDB &LMW &HMW &FILM  
M08F-004/659K  
M08F-004/659L  
M08F-004/6592  
M08L-023/08A1  
M08L-205/02  
**DS** - AU; BR; BY; CA; CN; CZ; ID; IL; IN; JP; KR; MX; NO; PL; RU; SG; SK; TR; ZA; Eurasian Patent (AM; AZ; BY; KG; KZ; MD; RU; TJ; TM); European Patent (AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE)  
**DT** - Corresponding document  
**UP** - 2001-24

---

1 / 1 LEGALI - ©EPO

**PN** - WO200140330 A1 20010607 [WO200140330]  
**AP** - WOUS0013373 20000515 [2000WO-US13373]

**ACTE** -  
20010607 WO/AK [+]  
DESIGNATED STATES CITED IN A PUBLISHED APPLICATION WITH

## SEARCH REPORT

AU BR BY CA CN CZ ID IL IN JP KR MX NO PL RU SG SK TR ZA

20010607 WO/AL [+]

DESIGNATED COUNTRIES FOR REGIONAL PATENTS CITED IN A  
PUBLISHED APPLICATION WITH SEARCH REPORTAM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR GB GR  
IE IT LU MC NL PT SE

20010801 WO/121

EP: THE EPO HAS BEEN INFORMED BY WIPO THAT EP WAS  
DESIGNATED IN THIS APPLICATION

20010920 WO/DFPE

REQUEST FOR PRELIMINARY EXAMINATION FILED PRIOR TO  
EXPIRATION OF 19TH MONTH FROM PRIORITY DATE

20020531 WO/ENP

ENTRY INTO THE NATIONAL PHASE IN:  
SK 7692002 [2000SK-7692002]

20020531 WO/ENP

ENTRY INTO THE NATIONAL PHASE IN:  
CA 2393347 [2000CA-2393347]

20020531 WO/WWE [+]

WIPO INFORMATION: ENTRY INTO NATIONAL PHASE  
< 1020027007028 >

20020531 WO/WWE [+]

WIPO INFORMATION: ENTRY INTO NATIONAL PHASE  
< 2393347 >

20020603 WO/ENP

ENTRY INTO THE NATIONAL PHASE IN:  
JP 2001 541083A [2001JP-0541083]

20020605 WO/WWE [+]

WIPO INFORMATION: ENTRY INTO NATIONAL PHASE  
< 51358/00 >

20020613 WO/WWE [+]

WIPO INFORMATION: ENTRY INTO NATIONAL PHASE  
< 008171009 >

20020701 WO/ENP

ENTRY INTO THE NATIONAL PHASE IN:  
RU 2002 2002117426A [2002RU-0117426]

20020718 WO/WWP [+]

WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE

< 1020027007028 >

20040902 WO/WWG [+]

WIPO INFORMATION: GRANT IN NATIONAL OFFICE

< 51358/00 >

20050131 WO/WWG [+]

WIPO INFORMATION: GRANT IN NATIONAL OFFICE

< 1020027007028 >

UP - 2007-38

71 / 73 PLUSPAT - ©QUESTEL-ORBIT

PN - ZA200203098 A 20030718 [ZA200203098]

STG - (A) Patent specification

TI - (A) Catalyst compositions, methods of polymerization, and polymers therefrom.

PA - (A) UNIVATION TECH LLC

IN - (A) ERICKSON KERSTEN ANNE; KAROL FREDERICK J; SCHRECK DAVID JAMES; SZUL JOHN F; DANIELL PAUL T; GOODE MARK G; KWALK TAE HOON; MAWSON SIMON; MCKEE MATTHEW G; HOLTCAMP MATTHEW W; LOVEDAY DONALD R; MCCONVILLE DAVID H; WILLIAMS CLARK C

IC - (A) C08F

AP - ZA200203098 20020418 [2002ZA-0003098]

PR - US42538799 19991022 [1999US-0425387]

ICAA - C08F-010/00 [2006-01 A - I R M EP]; C08F-010/02 [2006-01 A - I R M EP]; C08F-210/16 [2006-01 A - I R M EP]; C08L-023/08 [2006-01 A - I R M EP]; C08L-023/16 [2006-01 A - I R M EP] C08F-004/659 [2006-01 A - N R M EP]; C08F-004/6592 [2006-01 A - N R M EP]

ICCA - C08F-010/00 [2006 C - I R M EP]; C08F-210/00 [2006 C - I R M EP]; C08L-023/00 [2006 C - I R M EP] C08F-004/00 [2006 C - N R M EP]

UP - 2004-06

72 / 73 PLUSPAT - ©QUESTEL-ORBIT

PN - ZA200203101 A 20030730 [ZA200203101]

STG - (A) Patent specification

TI - (A) Start up methods for multiple catalyst systems.

PA - (A) UNIVATION TECH LLC

IN - (A) ERICKSON KERSTEN ANNE; SZUL JOHN F; DANIELL PAUL T; GOODE MARK G; MAWSON SIMON; MCKEE MATTHEW G

IC - (A) C08F

AP - ZA200203101 20020418 [2002ZA-0003101]

PR - US42538799 19991022 [1999US-0425387]

**ICAA** - C08F-010/00 [2006-01 A - I R M EP]; C08F-010/02 [2006-01 A - I R M EP];  
C08F-210/16 [2006-01 A - I R M EP]; C08L-023/08 [2006-01 A - I R M EP];  
C08L-023/16 [2006-01 A - I R M EP]  
C08F-004/659 [2006-01 A - N R M EP]; C08F-004/6592 [2006-01 A - N R M  
EP]

**ICCA** - C08F-010/00 [2006 C - I R M EP]; C08F-210/00 [2006 C - I R M EP]; C08L-  
023/00 [2006 C - I R M EP]  
C08F-004/00 [2006 C - N R M EP]

**UP** - 2004-06

---

73 / 73 *PLUSPAT - @QUESTEL-ORBIT*

**PN** - ZA200203997 A 20030820 [ZA200203997]

**STG** - (A) Patent specification

**TI** - (A) Solution feed of multiple catalysts.

**PA** - (A) UNIVATION TECH LLC

**IN** - (A) ERICKSON KERSTEN ANNE; SCHRECK DAVID JAMES; SZUL JOHN  
F; DANIELL PAUL T; GOODE MARK G; MAWSON SIMON; MCKEE  
MATTHEW G; WILLIAM CLARK C

**IC** - (A) C08F

**AP** - ZA200203997 20020520 [2002ZA-0003997]

**PR** - US45179299 19991201 [1999US-0451792]

**ICAA** - C08F-010/02 [2006-01 A - I R M EP]; C08F-210/16 [2006-01 A - I R M EP];  
C08L-023/08 [2006-01 A - I R M EP]; C08L-023/16 [2006-01 A - I R M EP]  
C08F-004/659 [2006-01 A - N R M EP]; C08F-004/6592 [2006-01 A - N R M  
EP]

**ICCA** - C08F-010/00 [2006 C - I R M EP]; C08F-210/00 [2006 C - I R M EP]; C08L-  
023/00 [2006 C - I R M EP]  
C08F-004/00 [2006 C - N R M EP]

**UP** - 2004-06

Search statement 3